

# ACS NTDB NATIONAL TRAUMA DATA STANDARD: Data Dictionary

2016 ADMISSIONS



AMERICAN COLLEGE OF SURGEONS  
*Inspiring Quality:  
Highest Standards, Better Outcomes*



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Demographic Information.....	7
PATIENT'S HOME ZIP/POSTAL CODE .....	8
PATIENT'S HOME COUNTRY .....	9
PATIENT'S HOME STATE .....	10
PATIENT'S HOME COUNTY .....	11
PATIENT'S HOME CITY .....	12
ALTERNATE HOME RESIDENCE .....	13
DATE OF BIRTH .....	14
AGE .....	16
AGE UNITS .....	17
RACE.....	18
ETHNICITY .....	19
SEX.....	20
Injury Information .....	21
INJURY INCIDENT DATE .....	22
INJURY INCIDENT TIME .....	23
WORK-RELATED.....	24
PATIENT'S OCCUPATIONAL INDUSTRY .....	25
PATIENT'S OCCUPATION .....	26
ICD-9 PRIMARY EXTERNAL CAUSE CODE.....	28
ICD-10 PRIMARY EXTERNAL CAUSE CODE.....	29
ICD-9 PLACE OF OCCURRENCE EXTERNAL CAUSE CODE .....	30
ICD-10 PLACE OF OCCURRENCE EXTERNAL CAUSE CODE .....	31
ICD-9 ADDITIONAL EXTERNAL CAUSE CODE .....	32
ICD-10 ADDITIONAL EXTERNAL CAUSE CODE.....	33
INCIDENT LOCATION ZIP/POSTAL CODE.....	34
INCIDENT COUNTRY .....	35
INCIDENT STATE .....	36
INCIDENT COUNTY .....	37
INCIDENT CITY .....	38
PROTECTIVE DEVICES.....	39
CHILD SPECIFIC RESTRAINT .....	40
AIRBAG DEPLOYMENT .....	41
REPORT OF PHYSICAL ABUSE .....	42
INVESTIGATION OF PHYSICAL ABUSE.....	43

CAREGIVER AT DISCHARGE .....	44
<b>Pre-hospital Information.....</b>	<b>45</b>
EMS DISPATCH DATE .....	46
EMS DISPATCH TIME .....	47
EMS UNIT ARRIVAL DATE AT SCENE OR TRANSFERRING FACILITY .....	48
EMS UNIT ARRIVAL TIME AT SCENE OR TRANSFERRING FACILITY .....	50
EMS UNIT DEPARTURE DATE FROM SCENE OR TRANSFERRING FACILITY .....	51
EMS UNIT DEPARTURE TIME FROM SCENE OR TRANSFERRING FACILITY .....	53
TRANSPORT MODE.....	54
OTHER TRANSPORT MODE .....	55
INITIAL FIELD SYSTOLIC BLOOD PRESSURE.....	56
INITIAL FIELD PULSE RATE.....	57
INITIAL FIELD RESPIRATORY RATE.....	58
INITIAL FIELD OXYGEN SATURATION .....	59
INITIAL FIELD GCS - EYE .....	60
INITIAL FIELD GCS - VERBAL .....	61
INITIAL FIELD GCS - MOTOR.....	62
INITIAL FIELD GCS - TOTAL.....	63
INTER-FACILITY TRANSFER .....	64
TRAUMA CENTER CRITERIA.....	65
VEHICULAR, PEDESTRIAN, OTHER RISK INJURY .....	66
PRE-HOSPITAL CARDIAC ARREST .....	67
<b>Emergency Department Information .....</b>	<b>68</b>
ED/HOSPITAL ARRIVAL DATE.....	69
ED/HOSPITAL ARRIVAL TIME .....	71
INITIAL ED/HOSPITAL SYSTOLIC BLOOD PRESSURE .....	72
INITIAL ED/HOSPITAL PULSE RATE .....	73
INITIAL ED/HOSPITAL TEMPERATURE .....	74
INITIAL ED/HOSPITAL RESPIRATORY RATE .....	75
INITIAL ED/HOSPITAL RESPIRATORY ASSISTANCE.....	76
INITIAL ED/HOSPITAL OXYGEN SATURATION.....	77
INITIAL ED/HOSPITAL SUPPLEMENTAL OXYGEN .....	78
INITIAL ED/HOSPITAL GCS - EYE .....	79
INITIAL ED/HOSPITAL GCS - VERBAL .....	80
INITIAL ED/HOSPITAL GCS - MOTOR .....	81

INITIAL ED/HOSPITAL GCS - TOTAL .....	82
INITIAL ED/HOSPITAL GCS ASSESSMENT QUALIFIERS .....	83
INITIAL ED/HOSPITAL HEIGHT .....	84
INITIAL ED/HOSPITAL WEIGHT .....	85
ALCOHOL USE INDICATOR .....	86
DRUG USE INDICATOR.....	87
ED DISCHARGE DISPOSITION.....	88
SIGNS OF LIFE.....	90
ED DISCHARGE DATE.....	91
ED DISCHARGE TIME.....	93
<b>Hospital Procedure Information.....</b>	<b>94</b>
ICD-9 HOSPITAL PROCEDURES .....	95
ICD-10 HOSPITAL PROCEDURES .....	97
HOSPITAL PROCEDURE START DATE .....	99
HOSPITAL PROCEDURE START TIME .....	100
<b>Diagnosis Information .....</b>	<b>101</b>
CO-MORBID CONDITIONS .....	102
ICD-9 INJURY DIAGNOSES.....	104
ICD-10 INJURY DIAGNOSES.....	105
<b>Injury Severity Information .....</b>	<b>107</b>
AIS PREDOT CODE .....	108
AIS SEVERITY .....	109
AIS VERSION.....	110
<b>Outcome Information .....</b>	<b>111</b>
TOTAL ICU LENGTH OF STAY.....	112
TOTAL VENTILATOR DAYS .....	114
HOSPITAL DISCHARGE DATE.....	116
HOSPITAL DISCHARGE TIME.....	118
HOSPITAL DISCHARGE DISPOSITION.....	119
<b>Financial Information.....</b>	<b>121</b>
PRIMARY METHOD OF PAYMENT .....	122
<b>Quality Assurance Information .....</b>	<b>123</b>
HOSPITAL COMPLICATIONS.....	124

TRAUMA QUALITY IMPROVEMENT PROGRAM Measures for Processes of Care.....	126
HIGHEST GCS TOTAL .....	127
HIGHEST GCS MOTOR .....	128
GCS ASSESSMENT QUALIFIER COMPONENT OF HIGHEST GCS TOTAL.....	130
INITIAL ED/HOSPITAL PUPILLARY RESPONSE .....	132
MIDLINE SHIFT.....	133
CEREBRAL MONITOR .....	135
CEREBRAL MONITOR DATE.....	137
CEREBRAL MONITOR TIME.....	139
VENOUS THROMBOEMBOLISM PROPHYLAXIS TYPE.....	140
VENOUS THROMBOEMBOLISM PROPHYLAXIS DATE.....	141
VENOUS THROMBOEMBOLISM PROPHYLAXIS TIME.....	142
TRANSFUSION BLOOD (4 HOURS).....	143
TRANSFUSION BLOOD (24 HOURS).....	144
TRANSFUSION BLOOD MEASUREMENT .....	146
TRANSFUSION BLOOD CONVERSION.....	147
TRANSFUSION PLASMA (4 HOURS).....	148
TRANSFUSION PLASMA (24 HOURS).....	150
TRANSFUSION PLASMA MEASUREMENT .....	152
TRANSFUSION PLASMA CONVERSION.....	153
TRANSFUSION PLATELETS (4 HOURS).....	154
TRANSFUSION PLATELETS (24 HOURS).....	155
TRANSFUSION PLATELETS MEASUREMENT .....	157
TRANSFUSION PLATELETS CONVERSION .....	158
CRYOPRECIPITATE (4 HOURS) .....	159
CRYOPRECIPITATE (24 HOURS) .....	160
CRYOPRECIPITATE MEASUREMENT .....	162
CRYOPRECIPITATE CONVERSION .....	163
LOWEST ED/HOSPITAL SYSTOLIC BLOOD PRESSURE .....	164
ANGIOGRAPHY .....	165
EMBOLIZATION SITE .....	166
ANGIOGRAPHY DATE .....	167
ANGIOGRAPHY TIME .....	168
SURGERY FOR HEMORRHAGE CONTROL TYPE.....	169

SURGERY FOR HEMORRHAGE CONTROL DATE ..... 170

SURGERY FOR HEMORRHAGE CONTROL TIME ..... 171

WITHDRAWAL OF CARE ..... 172

WITHDRAWAL OF CARE DATE ..... 173

WITHDRAWAL OF CARE TIME ..... 174

## Demographic Information

## PATIENT'S HOME ZIP/POSTAL CODE

D\_01

### Definition

The patient's home ZIP/Postal code of primary residence.

<b>XSD Element Name:</b> HomeZip	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> Zip	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element

### Additional Information

- Can be stored as a 5 or 9 digit code (XXXXX-XXXX) for US and CA, or can be stored in the postal code format of the applicable country.
- May require adherence to HIPAA regulations.
- If ZIP/Postal code is "Not Applicable," complete variable: Alternate Home Residence.
- If ZIP/Postal code is "Not Known/Not Recorded," complete variables: Patient's Home Country, Patient's Home State (US only), Patient's Home County (US only) and Patient's Home City (US only).
- If ZIP/Postal code is known, must also complete Patient's Home Country.

### Data Source Hierarchy Guide

1. Face Sheet
2. Billing Sheet
3. Admission Form

### Associated Edit Checks

Rule ID	Level	Message
0001	1	Invalid value
0002	2	Field cannot be blank

## PATIENT'S HOME COUNTRY

D\_02

### Definition

The country where the patient resides.

<b>XSD Element Name:</b> HomeCountry	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> Country	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element (two digit alpha country code)

### Additional Information

- Values are two character FIPS codes representing the country (e.g., US).
- If Patient's Home Country is not US, then the null value "Not Applicable" is used for: Patient's Home State, Patient's Home County, and Patient's Home City.

### Data Source Hierarchy Guide

1. Face Sheet
2. Billing Sheet
3. Admission Form

### Associated Edit Checks

Rule ID	Level	Message
0101	1	Invalid value
0102	2	Field cannot be blank
0104	2	Field cannot be Not Applicable
0105	2	Field cannot be Not Known/Not Recorded when Home Zip/Postal Code is not: (1) blank, (2) Not Applicable, or (3) Not Known/Not Recorded

## PATIENT'S HOME STATE

### Definition

The state (territory, province, or District of Columbia) where the patient resides.

<b>XSD Element Name:</b> HomeState	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> State	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element (two digit numeric FIPS code)

### Additional Information

- Only completed when ZIP/Postal code is "Not Known/Not Recorded" and country is US.
- Used to calculate FIPS code.

### Data Source Hierarchy Guide

1. Face Sheet
2. Billing Sheet
3. Admission Form

### Associated Edit Checks

Rule ID	Level	Message
0201	1	Invalid value (US only)
0202	2	Field cannot be blank (US only)
0204	2	Field must be Not Applicable (Non-US)

## PATIENT'S HOME COUNTY

D\_04

### Definition

The patient's county (or parish) of residence.

<b>XSD Element Name:</b> HomeCounty	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> County	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element (three digit numeric FIPS code)

### Additional Information

- Only completed when ZIP/Postal code is "Not Known/Not Recorded" and country is US.
- Used to calculate FIPS code.

### Data Source Hierarchy Guide

1. Face Sheet
2. Billing Sheet
3. Admission Form

### Associated Edit Checks

Rule ID	Level	Message
0301	1	Invalid value (US only)
0302	2	Field cannot be blank (US only)
0304	2	Field must be Not Applicable (Non-US)

**PATIENT'S HOME CITY****Definition**

The patient's city (or township, or village) of residence.

<b>XSD Element Name:</b> HomeCity	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> City	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

**Field Values**

- Relevant value for data element (five digit numeric FIPS code)

**Additional Information**

- Only completed when ZIP/Postal code is "Not Known/Not Recorded" and country is US.
- Used to calculate FIPS code.

**Data Source Hierarchy Guide**

1. Face Sheet
2. Billing Sheet
3. Admission Form

**Associated Edit Checks**

Rule ID	Level	Message
0401	1	Invalid value (US only)
0402	2	Field cannot be blank (US only)
0404	2	Field must be Not Applicable (Non-US)

## ALTERNATE HOME RESIDENCE

D\_06

### Definition

Documentation of the type of patient without a home zip/postal code.

<b>XSD Element Name:</b> HomeResidence	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> HomeResidence	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |                         |  |
|-------------------------|--|
| 1. Homeless             | 3. Migrant Worker                          |
| 2. Undocumented Citizen | 4. <del>RETIRED 2016 Foreign Visitor</del> |

### Additional Information

- Only completed when ZIP/Postal code is "Not Applicable."
- Homeless is defined as a person who lacks housing. The definition also includes a person living in transitional housing or a supervised public or private facility providing temporary living quarters.
- Undocumented Citizen is defined as a national of another country who has entered or stayed in another country without permission.
- Migrant Worker is defined as a person who temporarily leaves his/her principal place of residence within a country in order to accept seasonal employment in the same or different country.

### Data Source Hierarchy Guide

1. Face Sheet
2. Billing Sheet
3. Admission Form

### Associated Edit Checks

Rule ID	Level	Message
0501	1	Value is not a valid menu option
0502	2	Field cannot be blank

## DATE OF BIRTH

### Definition

The patient's date of birth.

<b>XSD Element Name:</b> DateOfBirth	<b>XSD Schema Datatype:</b> xs:date
<b>XSD ComplexType:</b> DateOfBirth	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 1890-01-01 <b>Maximum Value:</b> 2030-01-01	

### Field Values

- Relevant value for data element

### Additional Information

- Collected as YYYY-MM-DD.
- If Date of Birth is "Not Known/Not Recorded", complete variables: Age and Age Units.
- If Date of Birth equals ED/Hospital Arrival Date, then the Age and Age Units variables must be completed.
- Used to calculate patient age in minutes, hours, days, months, or years.

### Data Source Hierarchy Guide

1. Face Sheet
2. Billing Sheet
3. Admission Form
4. Triage/Trauma Flow Sheet
5. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
0601	1	Invalid value
0602	1	Date out of range
0603	2	Field cannot be blank
0605	3	Field should not be Not Known/Not Recorded
0606	2	Date of Birth is later than EMS Dispatch Date
0607	2	Date of Birth is later than EMS Unit Arrival on Scene Date
0608	2	Date of Birth is later than EMS Unit Scene Departure Date
0609	2	Date of Birth is later than ED/Hospital Arrival Date
0610	2	Date of Birth is later than ED Discharge Date
0611	2	Date of Birth is later than Hospital Discharge Date

0612	2	Date of Birth + 120 years must be less than ED/Hospital Arrival Date
0613	2	Field cannot be Not Applicable

## AGE

D\_08

### Definition

The patient's age at the time of injury (best approximation).

<b>XSD Element Name:</b> Age	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Age	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 120	

### Field Values

- Relevant value for data element

### Additional Information

- Used to calculate patient age in minutes, hours, days, months, or years.
- If Date of Birth is "Not Known/Not Recorded", complete variables: Age and Age Units.
- If Date of Birth equals ED/Hospital Arrival Date, then the Age and Age Units variables must be completed.
- Must also complete variable: Age Units.

### Data Source Hierarchy Guide

1. Face Sheet
2. Billing Sheet
3. Admission Form
4. Triage/Trauma Flow Sheet
5. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
0701	1	Age is outside the valid range of 0 - 120
0703	2	Field cannot be blank
0704	3	Injury Date minus Date of Birth should equal submitted Age as expressed in the Age Units specified.
0705	4	Age is greater than expected for the Age Units specified. Age should not exceed 60 minutes, 24 hours, 30 days, 24 months, or 120 years. Please verify this is correct.
0707	2	Field must be Not Applicable when Age Units is Not Applicable
0708	2	Field must be Not Known/Not Recorded when Age Units is Not Known/Not Recorded

## AGE UNITS

### Definition

The units used to document the patient's age (Minutes, Hours, Days, Months, Years).

<b>XSD Element Name:</b> AgeUnits	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> AgeUnits	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |           |            |
|-----------|------------|
| 1. Hours  | 4. Years   |
| 2. Days   | 5. Minutes |
| 3. Months |            |

### Additional Information

- Used to calculate patient age in minutes, hours, days, months, or years.
- If Date of Birth is "Not Known/Not Recorded", complete variables: Age and Age Units.
- If Date of Birth equals ED/Hospital Arrival Date, then the Age and Age Units variables must be completed.
- Must also complete variable: Age.

### Data Source Hierarchy Guide

1. Face Sheet
2. Billing Sheet
3. Admission Form
4. Triage/Trauma Flow Sheet
5. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
0801	1	Value is not a valid menu option
0803	2	Field cannot be blank
0805	2	Field must be Not Applicable when Age is Not Applicable
0806	2	Field must be Not Known/Not Recorded when Age is Not Known/Not Recorded

## RACE

### Definition

The patient's race.

<b>XSD Element Name:</b> Race	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Race	<b>Multiple Entry Configuration:</b> Yes, max 2
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |  |                              |
|--|------------------------------|
| 1. Asian                                     | 4. American Indian           |
| 2. Native Hawaiian or Other Pacific Islander | 5. Black or African American |
| 3. Other Race                                | 6. White                     |

### Additional Information

- Patient race should be based upon self-report or identified by a family member.
- The maximum number of races that may be reported for an individual patient is 2.

### Data Source Hierarchy Guide

1. Face Sheet
2. Billing Sheet
3. Admission Form
4. Triage/Trauma Flow Sheet
5. EMS Run Report
6. History & Physical

### Associated Edit Checks

Rule ID	Level	Message
0901	1	Value is not a valid menu option
0902	2	Field cannot be blank

## ETHNICITY

D\_11

### Definition

The patient's ethnicity.

<b>XSD Element Name:</b> Ethnicity	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Ethnicity	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Hispanic or Latino

2. Not Hispanic or Latino

### Additional Information

- Patient ethnicity should be based upon self-report or identified by a family member.
- The maximum number of ethnicities that may be reported for an individual patient is 1.

### Data Source Hierarchy Guide

1. Face Sheet
2. Billing Sheet
3. Admission Form
4. Triage/Trauma Flow Sheet
5. History & Physical
6. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
1001	1	Value is not a valid menu option
1002	2	Field cannot be blank

## SEX

D\_12

### Definition

The patient's sex.

<b>XSD Element Name:</b> Sex	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Sex	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Male

2. Female

### Additional Information

- Patients who have undergone a surgical and/or hormonal sex reassignment should be coded using the current assignment.

### Data Source Hierarchy Guide

1. Face Sheet
2. Billing Sheet
3. Admission Form
4. Triage/Trauma Flow Sheet
5. EMS Run Report
6. History & Physical

### Associated Edit Checks

Rule ID	Level	Message
1101	1	Value is not a valid menu option
1102	2	Field cannot be blank
1103	2	Field cannot be Not Applicable

## **Injury Information**

## INJURY INCIDENT DATE

### Definition

The date the injury occurred.

<b>XSD Element Name:</b> IncidentDate	<b>XSD Schema Datatype:</b> xs:date
<b>XSD ComplexType:</b> Date19902030	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 1990-01-01 <b>Maximum Value:</b> 2030-01-01	

### Field Values

- Relevant value for data element

### Additional Information

- Collected as YYYY-MM-DD.
- Estimates of date of injury should be based upon report by patient, witness, family, or health care provider. Other proxy measures (e.g., 911 call times) should not be used.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet
3. History & Physical
4. Face Sheet

### Associated Edit Checks

Rule ID	Level	Message
1201	1	Date is not valid
1202	1	Date out of range
1203	2	Field cannot be blank
1204	4	Injury Incident Date is earlier than Date of Birth
1205	4	Injury Incident Date is later than EMS Dispatch Date
1206	4	Injury Incident Date is later than EMS Unit Arrival on Scene Date
1207	4	Injury Incident Date is later than EMS Unit Scene Departure Date
1208	4	Injury Incident Date is later than ED/Hospital Arrival Date
1209	4	Injury Incident Date is later than ED Discharge Date
1210	4	Injury Incident Date is later than Hospital Discharge Date

## INJURY INCIDENT TIME

### Definition

The time the injury occurred.

<b>XSD Element Name:</b> IncidentTime	<b>XSD Schema Datatype:</b> xs:time
<b>XSD ComplexType:</b> Time	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element

### Additional Information

- Collected as HH:MM military time.
- Estimates of time of injury should be based upon report by patient, witness, family, or health care provider. Other proxy measures (e.g., 911 call times) should not be used.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet
3. History & Physical
4. Face Sheet

### Associated Edit Checks

Rule ID	Level	Message
1301	1	Time is not valid
1302	1	Time out of range
1303	2	Field cannot be blank
1304	4	Injury Incident Time is later than EMS Dispatch Time
1305	4	Injury Incident Time is later than EMS Unit Arrival on Scene Time
1306	4	Injury Incident Time is later than EMS Unit Scene Departure Time
1307	4	Injury Incident Time is later than ED/Hospital Arrival Time
1308	4	Injury Incident Time is later than ED Discharge Time
1309	4	Injury Incident Time is later than Hospital Discharge Time

## WORK-RELATED

I\_03

### Definition

Indication of whether the injury occurred during paid employment.

<b>XSD Element Name:</b> WorkRelated	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> YesNo	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Yes
2. No

### Additional Information

- If work related, two additional data fields must be completed: Patient's Occupational Industry and Patient's Occupation.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet
3. History & Physical
4. Face Sheet
5. Billing Sheet

### Associated Edit Checks

Rule ID	Level	Message
1401	1	Value is not a valid menu option
1402	2	Field cannot be blank
1405	4	Work-Related should be 1 (Yes) when Patient's Occupation is not: (1) blank, (2) Not Applicable, or (3) Not Known/Not Recorded
1406	4	Work-Related should be 1 (Yes) when Patient's Occupational Industry is not: (1) blank, (2) Not Applicable, or (3) Not Known/Not Recorded

## PATIENT'S OCCUPATIONAL INDUSTRY

### Definition

The occupational industry associated with the patient's work environment.

<b>XSD Element Name:</b> PatientsOccupationalIndustry	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> PatientsOccupationalIndustry	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |  |                                  |
|--|----------------------------------|
| 1. Finance, Insurance, and Real Estate | 8. Construction                  |
| 2. Manufacturing                       | 9. Government                    |
| 3. Retail Trade                        | 10. Natural Resources and Mining |
| 4. Transportation and Public Utilities | 11. Information Services         |
| 5. Agriculture, Forestry, Fishing      | 12. Wholesale Trade              |
| 6. Professional and Business Services  | 13. Leisure and Hospitality      |
| 7. Education and Health Services       | 14. Other Services               |

### Additional Information

- If work related, also complete Patient's Occupation.
- Based upon US Bureau of Labor Statistics Industry Classification.
- The null value "Not Applicable" is used if Work Related is 2. No.

### Data Source Hierarchy Guide

1. Billing Sheet
2. Face Sheet
3. Case Management/Social Services Notes
4. EMS Run Report
5. Nursing Notes/Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
1501	1	Value is not a valid menu option
1504	2	Field cannot be blank

## PATIENT'S OCCUPATION

### Definition

The occupation of the patient.

<b>XSD Element Name:</b> PatientsOccupation	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> PatientsOccupation	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |   |  |
|---|--|
| 1. Business and Financial Operations Occupations      | 13. Computer and Mathematical Occupations          |
| 2. Architecture and Engineering Occupations           | 14. Life, Physical, and Social Science Occupations |
| 3. Community and Social Services Occupations          | 15. Legal Occupations                              |
| 4. Education, Training, and Library Occupations       | 16. Arts, Design, Entertainment, Sports, and Media |
| 5. Healthcare Practitioners and Technical Occupations | 17. Healthcare Support Occupations                 |
| 6. Protective Service Occupations                     | 18. Food Preparation and Serving Related           |
| 7. Building and Grounds Cleaning and Maintenance      | 19. Personal Care and Service Occupations          |
| 8. Sales and Related Occupations                      | 20. Office and Administrative Support Occupations  |
| 9. Farming, Fishing, and Forestry Occupations         | 21. Construction and Extraction Occupations        |
| 10. Installation, Maintenance, and Repair Occupations | 22. Production Occupations                         |
| 11. Transportation and Material Moving Occupations    | 23. Military Specific Occupations                  |
| 12. Management Occupations                            |  |

### Additional Information

- Only completed if injury is work-related.
- If work related, also complete Patient's Occupational Industry.
- Based upon 1999 US Bureau of Labor Statistics Standard Occupational Classification (SOC).
- The null value "Not Applicable" is used if Work Related is 2. No.

### Data Source Hierarchy Guide

1. Billing Sheet
2. Face Sheet
3. Case Management/Social Services Notes
4. EMS Run Report
5. Nursing Notes/Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
1601	1	Value is not a valid menu option

1604      2      Field cannot be blank

## ICD-9 PRIMARY EXTERNAL CAUSE CODE

### Definition

External cause code used to describe the mechanism (or external factor) that caused the injury event.

<b>XSD Element Name:</b> PrimaryECode	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> ECode	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Length:</b> 3 <b>Maximum Length:</b> 5	<b>RegEx Pattern:</b> ((\d{3}(\.\d{1})?))

### Field Values

- Relevant ICD-9-CM code value for injury event

### Additional Information

- The null value "Not Applicable" is used if not coding ICD-9.
- The primary external cause code should describe the main reason a patient is admitted to the hospital.
- External cause codes are used to auto-generate two calculated fields: Trauma Type (Blunt, Penetrating, Burn) and Intentionality (based upon CDC matrix).
- ICD-9-CM codes will be accepted for this data element. Activity codes should not be reported in this field.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet
3. Nursing Notes/Flow Sheet
4. History & Physical
5. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
1701	1	E-Code is not a valid ICD-9-CM code
1702	2	Field cannot be blank
1703	4	External Cause Code should not be = (810.0, 811.0, 812.0, 813.0, 814.0, 815.0, 816.0, 817.0, 818.0, 819.0) and Age < 15
1704	2	Should not be 849.x (where x is 0-9)
1705	3	External Cause Code should not be an activity code. Primary External Cause Code should be within the range of E800-999.9

## ICD-10 PRIMARY EXTERNAL CAUSE CODE

### Definition

External cause code used to describe the mechanism (or external factor) that caused the injury event.

<b>XSD Element Name:</b> PrimaryECodeIcd10	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> ECodeIcd10	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Length:</b> 3 <b>Maximum Length:</b> 8	

### Field Values

- Relevant ICD-10-CM code value for injury event

### Additional Information

- The null value "Not Applicable" is used if not coding ICD-10.
- The primary external cause code should describe the main reason a patient is admitted to the hospital.
- External cause codes are used to auto-generate two calculated fields: Trauma Type (Blunt, Penetrating, Burn) and Intentionality (based upon CDC matrix).
- ICD-10-CM codes will be accepted for this data element. Activity codes should not be reported in this field.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet
3. Nursing Notes/Flow Sheet
4. History & Physical
5. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
8901	1	E-Code is not a valid ICD-10-CM code (ICD-10 CM only)
8902	2	Field cannot be blank
8904	2	Should not be Y92.X/Y92.XX/Y92.XXX (where X is A-Z or 0-9) (ICD-10 CM only)
8905	3	ICD-10 External Cause Code should not be Y93.X/Y93.XX (where X is A-Z or 0-9) (ICD-10 CM only)
8906	1	E-Code is not a valid ICD-10-CA code (ICD-10 CA only)

## ICD-9 PLACE OF OCCURRENCE EXTERNAL CAUSE CODE

I\_08

### Definition

Place of occurrence external cause code used to describe the place/site/location of the injury event (E 849.X).

<b>XSD Element Name:</b> LocationECode	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> LocationECode	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 9	

### Field Values

0. Home	5. Street
1. Farm	6. Public Building
2. Mine	7. Residential Institution
3. Industry	8. Other
4. Recreation	9. Unspecified

### Additional Information

- The null value "Not Applicable" is used if not coding ICD-9.
- Only ICD-9-CM codes will be accepted for ICD-9 Place of Occurrence External Cause Code.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet
3. Nursing Notes/Flow Sheet
4. History & Physical
5. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
1801	1	Value is not a valid menu option
1802	2	Field cannot be blank

## ICD-10 PLACE OF OCCURRENCE EXTERNAL CAUSE CODE

### Definition

Place of occurrence external cause code used to describe the place/site/location of the injury event (Y92.x).

<b>XSD Element Name:</b> PlaceOfInjuryCode	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> PlaceOfInjuryCode	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Length:</b> 4 <b>Maximum Length:</b> 7	

### Field Values

- The null value "Not Applicable" is used if not coding ICD-10.
- Relevant ICD-10-CM code value for injury event

### Additional Information

- Only ICD-10-CM codes will be accepted for ICD-10 Place of Occurrence External Cause Code.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet
3. Nursing Notes/Flow Sheet
4. History & Physical
5. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
9001	1	Invalid value (ICD-10 CM only)
9002	2	Field cannot be blank
9003	3	Place of Injury code should be Y92.X/Y92.XX/Y92.XXX (where X is A-Z [excluding I,O] or 0-9) (ICD-10 CM only)
9004	1	Invalid value (ICD-10 CA only)
9005	3	Place of Injury code should be U98X (where X is 0-9) (ICD-10 CA only)

## ICD-9 ADDITIONAL EXTERNAL CAUSE CODE

### Definition

Additional External Cause Code used in conjunction with the Primary External Cause Code if multiple external cause codes are required to describe the injury event.

<b>XSD Element Name:</b> AdditionalECode	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> ECode	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Length:</b> 3 <b>Maximum Length:</b> 5	<b>RegEx Pattern:</b> ((\d{3}(\.\d{1})?))

### Field Values

- The null value “Not Applicable” is used if not coding ICD-9.
- Relevant ICD-9-CM code value for injury event

### Additional Information

- External cause codes are used to auto-generate two calculated fields: Trauma Type: (Blunt, Penetrating, Burn) and Intentionality (based upon CDC matrix).
- Only ICD-9-CM codes will be accepted for ICD-9 Additional External Cause Code.
- Activity codes should not be reported in this field.
- Refer to Appendix 3: Glossary of Terms for multiple cause coding hierarchy.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet
3. Nursing Notes/Flow Sheet
4. History & Physical
5. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
1901	1	E-Code is not a valid ICD-9-CM code
1902	4	Additional External Cause Code should not be equal to Primary External Cause Code.
1903	2	Field cannot be blank

## ICD-10 ADDITIONAL EXTERNAL CAUSE CODE

### Definition

Additional External Cause Code used in conjunction with the Primary External Cause Code if multiple external cause codes are required to describe the injury event.

<b>XSD Element Name:</b> AdditionalECodeIcd10	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> ECodeIcd10	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Length:</b> 3 <b>Maximum Length:</b> 8	

### Field Values

- Relevant ICD-10-CM code value for injury event

### Additional Information

- The null value "Not Applicable" is used if not coding ICD-10.
- External cause codes are used to auto-generate two calculated fields: Trauma Type: (Blunt, Penetrating, Burn) and Intentionality (based upon CDC matrix).
- Only ICD-10-CM codes will be accepted for ICD-10 Additional External Cause Code.
- Activity codes should not be reported in this field.
- Refer to Appendix 3: Glossary of Terms for multiple cause coding hierarchy.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet
3. Nursing Notes/Flow Sheet
4. History & Physical
5. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
9101	1	E-Code is not a valid ICD-10-CM code (ICD-10 CM only)
9102	4	Additional External Cause Code ICD-10 should not be equal to Primary External Cause Code ICD-10
9103	2	Field cannot be blank
9104	1	E-Code is not a valid ICD-10-CA code (ICD-10 CA only)

## INCIDENT LOCATION ZIP/POSTAL CODE

### Definition

The ZIP/Postal code of the incident location.

<b>XSD Element Name:</b> InjuryZip	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> Zip	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element

### Additional Information

- Can be stored as a 5 or 9 digit code (XXXXX-XXXX) for US and CA, or can be stored in the postal code format of the applicable country.
- If "Not Applicable" or "Not Known/Not Recorded," complete variables: Incident Country, Incident State (US Only), Incident County (US Only) and Incident City (US Only).
- May require adherence to HIPAA regulations.
- If ZIP/Postal code is known, then must complete Incident Country.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
2001	1	Invalid value
2002	2	Field cannot be blank

## INCIDENT COUNTRY

### Definition

The country where the patient was found or to which the unit responded (or best approximation).

<b>XSD Element Name:</b> IncidentCountry	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> Country	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element (two digit alpha country code)

### Additional Information

- Values are two character FIPS codes representing the country (e.g., US).
- If Incident Country is not US, then the null value "Not Applicable" is used for: Incident State, Incident County, and Incident City.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
2101	1	Invalid value
2102	2	Field cannot be blank
2104	2	Field cannot be Not Applicable
2105	2	Field cannot be Not Known/Not Recorded when Incident Location ZIP/Postal Code is not: (1) blank, (2) Not Applicable, or (3) Not Known/Not Recorded

## INCIDENT STATE

### Definition

The state, territory, or province where the patient was found or to which the unit responded (or best approximation).

<b>XSD Element Name:</b> IncidentState	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> State	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element (two digit numeric FIPS code)

### Additional Information

- Only completed when Incident Location ZIP/Postal code is "Not Applicable" or "Not Known/Not Recorded", and country is US.
- Used to calculate FIPS code.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
2201	1	Invalid value (US only)
2203	2	Field cannot be blank (US only)
2204	2	Field must be Not Applicable (Non-US)

## INCIDENT COUNTY

I\_15

### Definition

The county or parish where the patient was found or to which the unit responded (or best approximation).

<b>XSD Element Name:</b> IncidentCounty	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> County	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element (three digit numeric FIPS code)

### Additional Information

- Only completed when Incident Location ZIP/Postal code is "Not Applicable" or "Not Known/Not Recorded", and country is US.
- Used to calculate FIPS code.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
2301	1	Invalid value (US only)
2303	2	Field cannot be blank (US only)
2304	2	Field must be Not Applicable (Non-US)

## INCIDENT CITY

### Definition

The city or township where the patient was found or to which the unit responded.

<b>XSD Element Name:</b> IncidentCity	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> City	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element (five digit numeric FIPS code)

### Additional Information

- Only completed when Incident Location ZIP/Postal code is "Not Applicable" or "Not Known/Not Recorded", and country is US.
- Used to calculate FIPS code.
- If incident location resides outside of formal city boundaries, report nearest city/town.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
2401	1	Invalid value (US only)
2403	2	Field cannot be blank (US only)
2404	2	Field must be Not Applicable (Non-US)

## PROTECTIVE DEVICES

### Definition

Protective devices (safety equipment) in use or worn by the patient at the time of the injury.

<b>XSD Element Name:</b> ProtectiveDevice	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> ProtectiveDevice	<b>Multiple Entry Configuration:</b> Yes, max 10
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |   |   |
|---|---|
| 1. None   | 7. Helmet (e.g., bicycle, skiing, motorcycle)       |
| 2. Lap Belt   | 8. Airbag Present                                   |
| 3. Personal Floatation Device                       | 9. Protective Clothing (e.g., padded leather pants) |
| 4. Protective Non-Clothing Gear (e.g., shin guard)  | 10. Shoulder Belt                                   |
| 5. Eye Protection                                   | 11. Other   |
| 6. Child Restraint (booster seat or child car seat) |   |

### Additional Information

- Check all that apply.
- If "Child Restraint" is present, complete variable "Child Specific Restraint."
- If "Airbag" is present, complete variable "Airbag Deployment."
- Evidence of the use of safety equipment may be reported or observed.
- Lap Belt should be used to include those patients that are restrained, but not further specified.
- If chart indicates "3-point-restraint", choose 2. Lap Belt and 10. Shoulder Belt

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet
3. Nursing Notes/Flow Sheet
4. History & Physical

### Associated Edit Checks

Rule ID	Level	Message
2501	1	Value is not a valid menu option
2502	2	Field cannot be blank
2505	3	Protective Device should be 6 (Child Restraint) when Child Specific Restraint is not: (1) blank, (2) Not Applicable, or (3) Not Known/Not Recorded
2506	3	Protective Device should be 8 (Airbag Present) when Airbag Deployment is not: (1) blank, (2) Not Applicable, or (3) Not Known/Not Recorded
2507	2	Field cannot be Not Applicable

## CHILD SPECIFIC RESTRAINT

I\_18

### Definition

Protective child restraint devices used by patient at the time of injury.

<b>XSD Element Name:</b> ChildSpecificRestraint	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> ChildSpecificRestraint	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Child Car Seat
2. Infant Car Seat
3. Child Booster Seat

### Additional Information

- Evidence of the use of child restraint may be reported or observed.
- Only completed when Protective Devices include "Child Restraint."

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet
3. Nursing Notes/Flow Sheet
4. History & Physical

### Associated Edit Checks

Rule ID	Level	Message
2601	1	Value is not a valid menu option
2603	2	Field cannot be blank

## AIRBAG DEPLOYMENT

I\_19

### Definition

Indication of airbag deployment during a motor vehicle crash.

<b>XSD Element Name:</b> AirbagDeployment	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> AirbagDeployment	<b>Multiple Entry Configuration:</b> Yes, max 4
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |                          |   |
|--------------------------|---|
| 1. Airbag Not Deployed   | 3. Airbag Deployed Side                                 |
| 2. Airbag Deployed Front | 4. Airbag Deployed Other (knee, airbelt, curtain, etc.) |

### Additional Information

- Check all that apply.
- Evidence of the use of airbag deployment may be reported or observed.
- Only completed when Protective Devices include "Airbag."
- Airbag Deployed Front should be used for patients with documented airbag deployments, but are not further specified.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet
3. Nursing Notes/Flow Sheet
4. History & Physical

### Associated Edit Checks

Rule ID	Level	Message
2701	1	Value is not a valid menu option
2703	2	Field cannot be blank

## REPORT OF PHYSICAL ABUSE

I\_20

### Definition

A report of suspected physical abuse was made to law enforcement and/or protective services.

<b>XSD Element Name:</b> AbuseReport	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> YesNo	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Yes

2. No

### Additional Information

- This includes, but is not limited to, a report of child, elder, spouse or intimate partner physical abuse.

### Data Source Hierarchy Guide

1. Case Management/Social Service Notes
2. ED Records
3. Progress Notes
4. Discharge Summary
5. History & Physical
6. Nursing Notes/Flow Sheet
7. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
9201	1	Value is not a valid menu option
9202	2	Field cannot be Not Applicable
9203	2	Field cannot be blank

## INVESTIGATION OF PHYSICAL ABUSE

### Definition

An investigation by law enforcement and/or protective services was initiated because of the suspected physical abuse.

<b>XSD Element Name:</b> AbuseInvestigation	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> YesNo	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

## Field Values

1. Yes 2. No

## Additional Information

- This includes, but is not limited to, a report of child, elder, spouse or intimate partner physical abuse.
- Only complete when Report of Physical Abuse is 1. Yes.
- The null value "Not Applicable" should be used for patients where Report of Physical Abuse is 2. No.

## Data Source Hierarchy Guide

1. Case Management/Social Service Notes
2. ED Records
3. Progress Notes
4. Discharge Summary
5. History & Physical
6. Nursing Notes/Flow Sheet

## Associated Edit Checks

Rule ID	Level	Message
9301	1	Value is not a valid menu option
9302	2	Field cannot be blank
9303	3	Field should not be Not Applicable when Report of Physical Abuse = 1 (Yes)

## CAREGIVER AT DISCHARGE

### Definition

The patient was discharged to a caregiver different than the caregiver at admission due to suspected physical abuse.

<b>XSD Element Name:</b> CaregiverAtDischarge	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> YesNo	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

## Field Values

1. Yes 2. No

## Additional Information

- Only complete when Report of Physical Abuse is 1. Yes.
- Only complete for minors as determined by state/local definition, excluding emancipated minors.
- The null value "Not Applicable" should be used for patients where Report of Physical Abuse is 2. No or where older than the state/local age definition of a minor.
- The null value "Not Applicable" should be used if the patient expires prior to discharge.

## Data Source Hierarchy Guide

1. Case Management/Social Services Notes
2. Discharge Summary
3. Nursing Notes/Flow Sheet
4. Progress Notes

## Associated Edit Checks

Rule ID	Level	Message
9401	1	Value is not a valid menu option
9402	2	Field cannot be blank

## Pre-hospital Information

## EMS DISPATCH DATE

P\_01

### Definition

The date the unit transporting to your hospital was notified by dispatch.

<b>XSD Element Name:</b> EmsNotifyDate	<b>XSD Schema Datatype:</b> xs:date
<b>XSD ComplexType:</b> Date19902030	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 1990-01-01 <b>Maximum Value:</b> 2030-01-01	

### Field Values

- Relevant value for data element

### Additional Information

- Collected as YYYY-MM-DD.
- Used to auto-generate an additional calculated field: Total EMS Time (elapsed time from EMS dispatch to hospital arrival).
- For inter-facility transfer patients, this is the date on which the unit transporting the patient to your facility from the transferring facility was notified by dispatch or assigned to this transport.
- For patients transported from the scene of injury to your hospital, this is the date on which the unit transporting the patient to your facility from the scene was dispatched.

### Data Source Hierarchy Guide

1. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
2801	1	Date is not valid
2802	1	Date out of range
2803	3	EMS Dispatch Date is earlier than Date of Birth
2804	4	EMS Dispatch Date is later than EMS Unit Arrival on Scene Date
2805	4	EMS Dispatch Date is later than EMS Unit Scene Departure Date
2806	3	EMS Dispatch Date is later than ED/Hospital Arrival Date
2807	4	EMS Dispatch Date is later than ED Discharge Date
2808	3	EMS Dispatch Date is later than Hospital Discharge Date
2809	2	Field cannot be blank

## EMS DISPATCH TIME

P\_02

### Definition

The time the unit transporting to your hospital was notified by dispatch.

<b>XSD Element Name:</b> EmsNotifyTime	<b>XSD Schema Datatype:</b> xs:time
<b>XSD ComplexType:</b> Time	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element

### Additional Information

- Collected as HH:MM military time.
- Used to auto-generate an additional calculated field: Total EMS Time (elapsed time from EMS dispatch to hospital arrival).
- For inter-facility transfer patients, this is the time at which the unit transporting the patient to your facility from the transferring facility was notified by dispatch.
- For patients transported from the scene of injury to your hospital, this is the time at which the unit transporting the patient to your facility from the scene was dispatched.

### Data Source Hierarchy Guide

1. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
2901	1	Time is not valid
2902	1	Time out of range
2903	4	EMS Dispatch Time is later than EMS Unit Arrival on Scene Time
2904	4	EMS Dispatch Time is later than EMS Unit Scene Departure Time
2905	4	EMS Dispatch Time is later than ED/Hospital Arrival Time
2906	4	EMS Dispatch Time is later than ED Discharge Time
2907	4	EMS Dispatch Time is later than Hospital Discharge Time
2908	2	Field cannot be blank

## EMS UNIT ARRIVAL DATE AT SCENE OR TRANSFERRING FACILITY

P\_03

### Definition

The date the unit transporting to your hospital arrived on the scene/transferring facility.

<b>XSD Element Name:</b> EmsArrivalDate	<b>XSD Schema Datatype:</b> xs:date
<b>XSD ComplexType:</b> Date19902030	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 1990-01-01 <b>Maximum Value:</b> 2030-01-01	

### Field Values

- Relevant value for data element

### Additional Information

- Collected as YYYY-MM-DD.
- Used to auto-generate two additional calculated fields: Total EMS Response Time (elapsed time from EMS dispatch to scene arrival) and Total EMS Scene Time (elapsed time from EMS scene arrival to scene departure).
- For inter-facility transfer patients, this is the date on which the unit transporting the patient to your facility from the transferring facility arrived at the transferring facility (arrival is defined at date/time when the vehicle stopped moving).
- For patients transported from the scene of injury to your hospital, this is the date on which the unit transporting the patient to your facility from the scene arrived at the scene (arrival is defined at date/time when the vehicle stopped moving).

### Data Source Hierarchy Guide

1. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
3001	1	Date is not valid
3002	1	Date out of range
3003	3	EMS Unit Arrival on Scene Date is earlier than Date of Birth
3004	4	EMS Unit Arrival on Scene Date is earlier than EMS Dispatch Date
3005	4	EMS Unit Arrival on Scene Date is later than EMS Unit Scene Departure Date
3006	3	EMS Unit Arrival on Scene Date is later than ED/Hospital Arrival Date
3007	4	EMS Unit Arrival on Scene Date is later than ED Discharge Date
3008	3	EMS Unit Arrival on Scene Date is later than Hospital Discharge Date
3009	3	EMS Unit Arrival on Scene Date minus EMS Dispatch Date is greater than 7 days

3010      2      Field cannot be blank

## EMS UNIT ARRIVAL TIME AT SCENE OR TRANSFERRING FACILITY

P\_04

### Definition

The time the unit transporting to your hospital arrived on the scene.

<b>XSD Element Name:</b> EmsArrivalTime	<b>XSD Schema Datatype:</b> xs:time
<b>XSD ComplexType:</b> Time	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element

### Additional Information

- Collected as HH:MM military time.
- Used to auto-generate two additional calculated fields: Total EMS Response Time (elapsed time from EMS dispatch to scene arrival) and Total EMS Scene Time (elapsed time from EMS scene arrival to scene departure).
- For inter-facility transfer patients, this is the time at which the unit transporting the patient to your facility from the transferring facility arrived at the transferring facility (arrival is defined at date/time when the vehicle stopped moving).
- For patients transported from the scene of injury to your hospital, this is the time at which the unit transporting the patient to your facility from the scene arrived at the scene (arrival is defined at date/time when the vehicle stopped moving).

### Data Source Hierarchy Guide

1. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
3101	1	Time is not valid
3102	1	Time out of range
3103	4	EMS Unit Arrival on Scene Time is earlier than EMS Dispatch Time
3104	4	EMS Unit Arrival on Scene Time is later than EMS Unit Scene Departure Time
3105	4	EMS Unit Arrival on Scene Time is later than ED/Hospital Arrival Time
3106	4	EMS Unit Arrival on Scene Time is later than ED Discharge Time
3107	4	EMS Unit Arrival on Scene Time is later than Hospital Discharge Time
3108	2	Field cannot be blank

## EMS UNIT DEPARTURE DATE FROM SCENE OR TRANSFERRING FACILITY

P\_05

### Definition

The date the unit transporting to your hospital left the scene.

<b>XSD Element Name:</b> EmsLeftDate	<b>XSD Schema Datatype:</b> xs:date
<b>XSD ComplexType:</b> Date19902030	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 1990-01-01 <b>Maximum Value:</b> 2030-01-01	

### Field Values

- Relevant value for data element

### Additional Information

- Collected as YYYY-MM-DD.
- Used to auto-generate an additional calculated field: Total EMS Scene Time (elapsed time from EMS scene arrival to scene departure).
- For inter-facility transfer patients, this is the date on which the unit transporting the patient to your facility from the transferring facility departed from the transferring facility (departure is defined at date/time when the vehicle started moving).
- For patients transported from the scene of injury to your hospital, this is the date on which the unit transporting the patient to your facility from the scene departed from the scene (departure is defined at date/time when the vehicle started moving).

### Data Source Hierarchy Guide

1. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
3201	1	Date is not valid
3202	1	Date out of range
3203	3	EMS Unit Scene Departure Date is earlier than Date of Birth
3204	4	EMS Unit Scene Departure Date is earlier than EMS Dispatch Date
3205	4	EMS Unit Scene Departure Date is earlier than EMS Unit Arrival on Scene Date
3206	3	EMS Unit Scene Departure Date is later than ED/Hospital Arrival Date
3207	4	EMS Unit Scene Departure Date is later than ED Discharge Date
3208	3	EMS Unit Scene Departure Date is later than Hospital Discharge Date
3209	3	EMS Unit Scene Departure Date minus EMS Unit Arrival on Scene Date is greater than 7 days

3210      2      Field cannot be blank

## EMS UNIT DEPARTURE TIME FROM SCENE OR TRANSFERRING FACILITY

P\_06

### Definition

The time the unit transporting to your hospital left the scene.

<b>XSD Element Name:</b> EmsLeftTime	<b>XSD Schema Datatype:</b> xs:time
<b>XSD ComplexType:</b> Time	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element

### Additional Information

- Collected as HH:MM military time.
- Used to auto-generate an additional calculated field: Total EMS Scene Time (elapsed time from EMS scene arrival to scene departure).
- For inter-facility transfer patients, this is the time at which the unit transporting the patient to your facility from the transferring facility departed from the transferring facility (departure is defined at date/time when the vehicle started moving).
- For patients transported from the scene of injury to your hospital, this is the time at which the unit transporting the patient to your facility from the scene departed from the scene (departure is defined at date/time when the vehicle started moving).

### Data Source Hierarchy Guide

1. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
3301	1	Time is not valid
3302	1	Time out of range
3303	4	EMS Unit Scene Departure Time is earlier than EMS Dispatch Time
3304	4	EMS Unit Scene Departure Time is earlier than EMS Unit Arrival on Scene Time
3305	4	EMS Unit Scene Departure Time is later than ED/Hospital Arrival Time
3306	4	EMS Unit Scene Departure Time is later than the ED Discharge Time
3307	4	EMS Unit Scene Departure Time is later than Hospital Discharge Time
3308	2	Field cannot be blank

## TRANSPORT MODE

### Definition

The mode of transport delivering the patient to your hospital.

<b>XSD Element Name:</b> TransportMode	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> TransportMode	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |                         |                                   |
|-------------------------|-----------------------------------|
| 1. Ground Ambulance     | 4. Private/Public Vehicle/Walk-in |
| 2. Helicopter Ambulance | 5. Police                         |
| 3. Fixed-wing Ambulance | 6. Other                          |

### Additional Information

#### Data Source Hierarchy Guide

1. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
3401	1	Value is not a valid menu option
3402	2	Field cannot be blank
3403	4	Transport Mode should not be 4 (Private/Public Vehicle/Walk-in) when EMS response times are not: (1) blank, (2) Not Applicable, or (3) Not Known/Not Recorded

## OTHER TRANSPORT MODE

### Definition

All other modes of transport used during patient care event (prior to arrival at your hospital), except the mode delivering the patient to the hospital.

<b>XSD Element Name:</b> OtherTransportMode	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> TransportMode	<b>Multiple Entry Configuration:</b> Yes, max 5
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |                         |                                   |
|-------------------------|-----------------------------------|
| 1. Ground Ambulance     | 4. Private/Public Vehicle/Walk-in |
| 2. Helicopter Ambulance | 5. Police                         |
| 3. Fixed-wing Ambulance | 6. Other                          |

### Additional Information

- Include in "Other" unspecified modes of transport.
- The null value "Not Applicable" is used to indicate that a patient had a single mode of transport and therefore this field does not apply to the patient.
- Check all that apply with a maximum of 5.

### Data Source Hierarchy Guide

1. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
3501	1	Value is not a valid menu option
3502	2	Field cannot be blank

## INITIAL FIELD SYSTOLIC BLOOD PRESSURE

P\_09

### Definition

First recorded systolic blood pressure measured at the scene of injury.

<b>XSD Element Name:</b> EmsSbp	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Sbp	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 300	

### Field Values

- Relevant value for data element

### Additional Information

- The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.
- Measurement recorded must be without the assistance of CPR or any type of mechanical chest compression device. For those patients who are receiving CPR or any type of mechanical chest compressions, report the value obtained while compressions are paused.
- The null value "Not Applicable" is used for patients who arrive by 4. Private/Public Vehicle/Walk-in.

### Data Source Hierarchy Guide

1. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
3601	1	Invalid value
3602	2	Field cannot be blank
3603	3	SBP exceeds the max of 300

## INITIAL FIELD PULSE RATE

### Definition

First recorded pulse measured at the scene of injury (palpated or auscultated), expressed as a number per minute.

<b>XSD Element Name:</b> EmsPulseRate	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> PulseRate	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 299	

### Field Values

- Relevant value for data element

### Additional Information

- The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.
- Measurement recorded must be without the assistance of CPR or any type of mechanical chest compression device. For those patients who are receiving CPR or any type of mechanical chest compressions, report the value obtained while compressions are paused.
- The null value "Not Applicable" is used for patients who arrive by 4. Private/Public Vehicle/Walk-in.

### Data Source Hierarchy Guide

1. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
3701	1	Invalid value
3702	2	Field cannot be blank
3703	3	Pulse rate exceeds the max of 299

## INITIAL FIELD RESPIRATORY RATE

### Definition

First recorded respiratory rate measured at the scene of injury (expressed as a number per minute).

<b>XSD Element Name:</b> EmsRespiratoryRate	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> RespiratoryRate	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 120	

### Field Values

- Relevant value for data element.

### Additional Information

- The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.
- The null value "Not Applicable" is used for patients who arrive by 4. Private/Public Vehicle/Walk-in.

### Data Source Hierarchy Guide

1. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
3801	1	Invalid value. RR cannot be > 99 for age in years >= 6 OR RR cannot be > 120 for age in years < 6. If age and age units are not valued, RR cannot be > 120.
3802	2	Field cannot be blank
3803	3	Invalid, out of range. RR cannot be > 99 and <=120 for age in years < 6. If age and age units are not valued, RR cannot be > 99.

## INITIAL FIELD OXYGEN SATURATION

### Definition

First recorded oxygen saturation measured at the scene of injury (expressed as a percentage).

<b>XSD Element Name:</b> EmsPulseOximetry	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> PulseOximetry	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 100	

### Field Values

- Relevant value for data element

### Additional Information

- The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.
- Value should be based upon assessment before administration of supplemental oxygen.
- The null value "Not Applicable" is used for patients who arrive by 4. Private/Public Vehicle/Walk-in.

### Data Source Hierarchy Guide

1. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
3901	1	Pulse oximetry is outside the valid range of 0 - 100
3902	2	Field cannot be blank

## INITIAL FIELD GCS - EYE

### Definition

First recorded Glasgow Coma Score (Eye) measured at the scene of injury.

<b>XSD Element Name:</b> EmsGcsEye	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> GcsEye	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. No eye movement when assessed
2. Opens eyes in response to painful stimulation
3. Opens eyes in response to verbal stimulation
4. Opens eyes spontaneously

### Additional Information

- Used to calculate Overall GCS - EMS Score.
- The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.
- If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient withdraws from a painful stimulus," a Motor GCS of 4 may be recorded, IF there is no other contradicting documentation.
- The null value "Not Applicable" is used for patients who arrive by 4. Private/Public Vehicle/Walk-in.

### Data Source Hierarchy Guide

1. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
4001	1	Value is not a valid menu option
4003	2	Field cannot be blank

**Definition**

First recorded Glasgow Coma Score (Verbal) measured at the scene of injury.

<b>XSD Element Name:</b> EmsGcsVerbal	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> GcsVerbal	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

**Field Values**Pediatric (≤ 2 years):

- |                                       |   |
|---------------------------------------|---|
| 1. No vocal response                  | 4. Cries but is consolable, inappropriate interactions    |
| 2. Inconsolable, agitated             | 5. Smiles, oriented to sounds, follows objects, interacts |
| 3. Inconsistently consolable, moaning |   |

Adult

- |                            |             |
|----------------------------|-------------|
| 1. No verbal response      | 4. Confused |
| 2. Incomprehensible sounds | 5. Oriented |
| 3. Inappropriate words     |             |

**Additional Information**

- Used to calculate Overall GCS - EMS Score.
- The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.
- If patient is intubated then the GCS Verbal score is equal to 1.
- If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient withdraws from a painful stimulus," a Motor GCS of 4 may be recorded, IF there is no other contradicting documentation.
- The null value "Not Applicable" is used for patients who arrive by 4. Private/Public Vehicle/Walk-in.

**Data Source Hierarchy Guide**

1. EMS Run Report

**Associated Edit Checks**

Rule ID	Level	Message
4101	1	Value is not a valid menu option
4103	2	Field cannot be blank

**Definition**

First recorded Glasgow Coma Score (Motor) measured at the scene of injury.

<b>XSD Element Name:</b> EmsGcsMotor	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> GcsMotor	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

**Field Values**Pediatric ( $\leq 2$  years):

- |                      |  |
|----------------------|--|
| 1. No motor response | 4. Withdrawal from pain                |
| 2. Extension to pain | 5. Localizing pain                     |
| 3. Flexion to pain   | 6. Appropriate response to stimulation |

Adult

- |                      |                         |
|----------------------|-------------------------|
| 1. No motor response | 4. Withdrawal from pain |
| 2. Extension to pain | 5. Localizing pain      |
| 3. Flexion to pain   | 6. Obeys commands       |

**Additional Information**

- Used to calculate Overall GCS - EMS Score.
- The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.
- If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient withdraws from a painful stimulus," a Motor GCS of 4 may be recorded, IF there is no other contradicting documentation.
- The null value "Not Applicable" is used for patients who arrive by 4. Private/Public Vehicle/Walk-in.

**Data Source Hierarchy Guide**

1. EMS Run Report

**Associated Edit Checks**

Rule ID	Level	Message
4201	1	Value is not a valid menu option
4203	2	Field cannot be blank

## INITIAL FIELD GCS - TOTAL

### Definition

First recorded Glasgow Coma Score (total) measured at the scene of injury.

<b>XSD Element Name:</b> EmsTotalGcs	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> TotalGcs	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 3 <b>Maximum Value:</b> 15	

### Field Values

- Relevant value for data element

### Additional Information

- The null value "Not Known/Not Recorded" is used if the patient is transferred to your facility with no EMS Run Report from the scene of injury.
- If a patient does not have a numeric GCS recorded, but there is documentation related to their level of consciousness such as "AAOx3," "awake alert and oriented," or "patient with normal mental status," interpret this as GCS of 15 IF there is no other contradicting documentation.
- The null value "Not Applicable" is used for patients who arrive by 4. Private/Public Vehicle/Walk-in.

### Data Source Hierarchy Guide

1. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
4301	1	GCS Total is outside the valid range of 3 - 15
4303	4	Initial Field GCS - Total does not equal the sum of Initial Field GCS - Eye, Initial Field GCS - Verbal, and Initial Field GCS - Motor
4304	2	Field cannot be blank

## INTER-FACILITY TRANSFER

### Definition

Was the patient transferred to your facility from another acute care facility?

<b>XSD Element Name:</b> InterFacilityTransfer	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> YesNo	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Yes

2. No

### Additional Information

- Patients transferred from a private doctor's office, stand-alone ambulatory surgery center, or delivered to your hospital by a non-EMS transport are not considered an inter-facility transfers.
- Outlying facilities purporting to provide emergency care services or utilized to stabilize a patient are considered acute care facilities.

### Data Source Hierarchy Guide

1. EMS Run Report
2. Triage/Trauma Flow Sheet
3. History & Physical

### Associated Edit Checks

Rule ID	Level	Message
4401	2	Field cannot be blank
4402	1	Value is not a valid menu option
4404	3	Field should not be Not Known/Not Recorded
4405	2	Field cannot be Not Applicable

**Definition**

Physiologic and anatomic EMS trauma triage criteria for transport to a trauma center as defined by the Centers for Disease Control and Prevention and the American College of Surgeons-Committee on Trauma. This information must be found on the scene of injury EMS Run Report.

<b>XSD Element Name:</b> TraumaCenterCriterion	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> TraumaCenterCriterion	<b>Multiple Entry Configuration:</b> Yes, max 11
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

**Field Values**

- |   |   |
|---|---|
| 1. Glasgow Coma Score <= 13   | 7. Crushed, degloved, mangled, or pulseless extremity |
| 2. Systolic blood pressure < 90 mmHg  | 8. Amputation proximal to wrist or ankle              |
| 3. Respiratory rate < 10 or > 29 breaths per minute (< 20 in infants aged < 1 year) or need for ventilatory support | 9. Pelvic fracture                                    |
| 4. All penetrating injuries to head, neck, torso, and extremities proximal to elbow or knee                         | 10. Open or depressed skull fracture                  |
| 5. Chest wall instability or deformity (e.g., flail chest)  | 11. Paralysis   |
| 6. Two or more proximal long-bone fractures   |   |

**Additional Information**

- The null value "Not Applicable" should be used to indicate that the patient did not arrive by EMS.
- The null value "Not Applicable" should be used if EMS Run Report indicates patient did not meet any Trauma Center Criteria.
- The null value "Not Known/Not Recorded" should be used if this information is not indicated, as an identical response choice, on the EMS Run Report or if the EMS Run Report is not available.
- Check all that apply.

**Data Source Hierarchy Guide**

1. EMS Run Report

**Associated Edit Checks**

Rule ID	Level	Message
9501	1	Value is not a valid menu option
9502	2	Field cannot be blank

## VEHICULAR, PEDESTRIAN, OTHER RISK INJURY

### Definition

EMS trauma triage mechanism of injury criteria for transport to a trauma center as defined by the Centers for Disease Control and Prevention and the American College of Surgeons-Committee on Trauma. This information must be found on the scene of injury EMS Run Report.

<b>XSD Element Name:</b> VehicularPedestrianOther	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> VehiclePedestrianOther	<b>Multiple Entry Configuration:</b> Yes, max 14
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Fall adults: > 20 ft. (one story is equal to 10 ft.)
2. Fall children: > 10 ft. or 2-3 times the height of the child
3. Crash intrusion, including roof: > 12 in. occupant site; > 18 in. any site
4. Crash ejection (partial or complete) from automobile
5. Crash death in same passenger compartment
6. Crash vehicle telemetry data (AACN) consistent with high risk injury
7. Auto v. pedestrian/bicyclist thrown, run over, or > 20 MPH impact
8. Motorcycle crash > 20 mph
9. For adults > 65; SBP < 110
10. Patients on anticoagulants and bleeding disorders
11. Pregnancy > 20 weeks
12. EMS provider judgment
13. Burns
14. Burns with Trauma

### Additional Information

- The null value "Not Applicable" should be used to indicate that the patient did not arrive by EMS.
- The null value "Not Applicable" should be used if EMS Run Report indicates patient did not meet any Vehicular, Pedestrian, Other Risk Injury criteria.
- The null value "Not Known/Not Recorded" should be used if this information is not indicated, as an identical response choice, on the EMS Run Report or if the EMS Run Report is not available.
- Check all that apply.

### Data Source Hierarchy Guide

1. EMS Run Report

### Associated Edit Checks

Rule ID	Level	Message
9601	1	Value is not a valid menu option
9602	2	Field cannot be blank

Indication of whether patient experienced cardiac arrest prior to ED/Hospital arrival.

## Field Values

1. Yes 2. No

- A patient who experienced a sudden cessation of cardiac activity. The patient was unresponsive with no normal breathing and no signs of circulation.
- The event must have occurred outside of the reporting hospital, prior to admission at the center in which the registry is maintained. Pre-hospital cardiac arrest could occur at a transferring institution.
- Any component of basic and/or advanced cardiac life support must have been initiated by a health care provider.

1. EMS Run Report
2. Nursing Notes/Flow Sheet
3. History & Physical
4. Transfer Notes

Rule ID	Level	Message
9701	1	Value is not a valid menu option
9702	2	Field cannot be blank
9703	2	Field cannot be Not Applicable

## Emergency Department Information

## ED/HOSPITAL ARRIVAL DATE

## Definition

The date the patient arrived to the ED/hospital.

<b>XSD Element Name:</b> HospitalArrivalDate	<b>XSD Schema Datatype:</b> xs:date
<b>XSD ComplexType:</b> Date19902030	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 1990-01-01 <b>Maximum Value:</b> 2030-01-01	

## Field Values

- Relevant value for data element

## Additional Information

- If the patient was brought to the ED, enter date patient arrived at ED. If patient was directly admitted to the hospital, enter date patient was admitted to the hospital.
- Collected as YYYY-MM-DD.
- Used to auto-generate two additional calculated fields: Total EMS Time: (elapsed time from EMS dispatch to hospital arrival) and Total Length of Hospital Stay (elapsed time from ED/Hospital Arrival to ED/Hospital Discharge).

## Data Source Hierarchy Guide

1. Triage/Trauma Flow Sheet
2. ED Record
3. Face Sheet
4. Billing Sheet
5. Discharge Summary

## Associated Edit Checks

Rule ID	Level	Message
4501	1	Date is not valid
4502	1	Date out of range
4503	2	Field cannot be blank
4505	2	Field cannot be Not Known/Not Recorded
4506	3	ED/Hospital Arrival Date is earlier than EMS Dispatch Date
4507	3	ED/Hospital Arrival Date is earlier than EMS Unit Arrival on Scene Date
4508	3	ED/Hospital Arrival Date is earlier than EMS Unit Scene Departure Date
4509	2	ED/Hospital Arrival Date is later than ED Discharge Date
4510	2	ED/Hospital Arrival Date is later than Hospital Discharge Date

4511	3	ED/Hospital Arrival Date is earlier than Date of Birth
4512	3	ED/Hospital Arrival Date should be after 1993
4513	3	ED/Hospital Arrival Date minus Injury Incident Date should be less than 30 days
4514	3	ED/Hospital Arrival Date minus EMS Dispatch Date is greater than 7 days
4515	2	Field cannot be Not Applicable

## ED/HOSPITAL ARRIVAL TIME

### Definition

The time the patient arrived to the ED/hospital.

<b>XSD Element Name:</b> HospitalArrivalTime	<b>XSD Schema Datatype:</b> xs:time
<b>XSD ComplexType:</b> Time	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element

### Additional Information

- If the patient was brought to the ED, enter time patient arrived at ED. If patient was directly admitted to the hospital, enter time patient was admitted to the hospital.
- Collected as HH:MM military time.
- Used to auto-generate two additional calculated fields: Total EMS Time (elapsed time from EMS dispatch to hospital arrival) and Total Length of Hospital Stay (elapsed time from ED/Hospital Arrival to ED/Hospital Discharge).

### Data Source Hierarchy Guide

1. Triage/Trauma Flow Sheet
2. ED Record
3. Face Sheet
4. Billing Sheet
5. Discharge Summary

### Associated Edit Checks

Rule ID	Level	Message
4601	1	Time is not valid
4602	1	Time out of range
4603	2	Field cannot be blank
4604	4	ED/Hospital Arrival Time is earlier than EMS Dispatch Time
4605	4	ED/Hospital Arrival Time is earlier than EMS Unit Arrival on Scene Time
4606	4	ED/Hospital Arrival Time is earlier than EMS Unit Scene Departure Time
4607	4	ED/Hospital Arrival Time is later than ED Discharge Time
4608	4	ED/Hospital Arrival Time is later than Hospital Discharge Time

## INITIAL ED/HOSPITAL SYSTOLIC BLOOD PRESSURE

ED\_03

### Definition

First recorded systolic blood pressure in the ED/hospital within 30 minutes or less of ED/hospital arrival.

<b>XSD Element Name:</b> Sbp	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Sbp	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 300	

### Field Values

- Relevant value for data element

### Additional Information

- Please note that first recorded/hospital vitals do not need to be from the same assessment.
- Measurement recorded must be without the assistance of CPR or any type of mechanical chest compression device. For those patients who are receiving CPR or any type of mechanical chest compressions, report the value obtained while compressions are paused.

### Data Source Hierarchy Guide

1. Triage/Trauma/Hospital Flow Sheet
2. Nurses Notes/Flow Sheet
3. Physician Notes
4. History & Physical

### Associated Edit Checks

Rule ID	Level	Message
4701	1	Invalid value
4702	2	Field cannot be blank
4704	3	SBP value exceeds the max of 300

## INITIAL ED/HOSPITAL PULSE RATE

### Definition

First recorded pulse in the ED/hospital (palpated or auscultated) within 30 minutes or less of ED/hospital arrival (expressed as a number per minute).

<b>XSD Element Name:</b> PulseRate	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> PulseRate	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 299	

### Field Values

- Relevant value for data element

### Additional Information

- Please note that first recorded/hospital vitals do not need to be from the same assessment.
- Measurement recorded must be without the assistance of CPR or any type of mechanical chest compression device. For those patients who are receiving CPR or any type of mechanical chest compressions, report the value obtained while compressions are paused.

### Data Source Hierarchy Guide

1. Triage/Trauma/Hospital Flow Sheet
2. Nurses Notes/Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
4801	1	Invalid value
4802	2	Field cannot be blank
4804	3	Pulse rate exceeds the max of 299

## INITIAL ED/HOSPITAL TEMPERATURE

### Definition

First recorded temperature (in degrees Celsius [centigrade]) in the ED/hospital within 30 minutes or less of ED/hospital arrival.

<b>XSD Element Name:</b> Temperature	<b>XSD Schema Datatype:</b> xs:decimal
<b>XSD ComplexType:</b> Temperature	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0.0 <b>Maximum Value:</b> 45.0	

### Field Values

- Relevant value for data element

### Additional Information

- Please note that first recorded/hospital vitals do not need to be from the same assessment.

### Data Source Hierarchy Guide

1. Triage/Trauma/Hospital Flow Sheet
2. Nurses Notes/Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
4901	1	Invalid value
4902	2	Field cannot be blank
4903	3	Temperature exceeds the max of 45.0 Celsius

## INITIAL ED/HOSPITAL RESPIRATORY RATE

### Definition

First recorded respiratory rate in the ED/hospital within 30 minutes or less of ED/hospital arrival (expressed as a number per minute).

<b>XSD Element Name:</b> RespiratoryRate	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> RespiratoryRate	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 120	

### Field Values

- Relevant value for data element

### Additional Information

- If available, complete additional field: Initial ED/Hospital Respiratory Assistance.
- Please note that first recorded/hospital vitals do not need to be from the same assessment.

### Data Source Hierarchy Guide

1. Triage/Trauma/Hospital Flow Sheet
2. Nurses Notes/Flow Sheet
3. Respiratory Therapy Notes/Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
5001	1	Invalid value. RR cannot be > 99 for age in years >= 6 OR RR cannot be > 120 for age in years < 6. If age and age units are not valued, RR cannot be > 120.
5002	2	Field cannot be blank
5005	3	Invalid, out of range. RR cannot be > 99 and <=120 for age in years < 6. If age and age units are not valued, RR cannot be > 99.

## INITIAL ED/HOSPITAL RESPIRATORY ASSISTANCE

### Definition

Determination of respiratory assistance associated with the initial ED/hospital respiratory rate within 30 minutes or less of ED/hospital arrival.

<b>XSD Element Name:</b> RespiratoryAssistance	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> RespiratoryAssistance	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Unassisted Respiratory Rate

2. Assisted Respiratory Rate

### Additional Information

- Only completed if a value is provided for Initial ED/Hospital Respiratory Rate.
- Respiratory Assistance is defined as mechanical and/or external support of respiration.
- Please note that first recorded/hospital vitals do not need to be from the same assessment.

### Data Source Hierarchy Guide

1. Triage/Trauma/Hospital Flow Sheet
2. Nurses Notes/Flow Sheet
3. Respiratory Therapy Notes/Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
5101	1	Value is not a valid menu option
5102	2	Field cannot be blank

## INITIAL ED/HOSPITAL OXYGEN SATURATION

### Definition

First recorded oxygen saturation in the ED/hospital within 30 minutes or less of ED/hospital arrival (expressed as a percentage).

<b>XSD Element Name:</b> PulseOximetry	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> PulseOximetry	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 100	

### Field Values

- Relevant value for data element

### Additional Information

- If available, complete additional field: Initial ED/Hospital Supplemental Oxygen.
- Please note that first recorded/hospital vitals do not need to be from the same assessment.

### Data Source Hierarchy Guide

1. Triage/Trauma/Hospital Flow Sheet
2. Nurses Notes/Flow Sheet
3. Respiratory Therapy Notes/Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
5201	1	Pulse oximetry is outside the valid range of 0 - 100
5202	2	Field cannot be blank

## INITIAL ED/HOSPITAL SUPPLEMENTAL OXYGEN

### Definition

Determination of the presence of supplemental oxygen during assessment of initial ED/hospital oxygen saturation level within 30 minutes or less of ED/hospital arrival.

<b>XSD Element Name:</b> SupplementalOxygen	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> SupplementalOxygen	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. No Supplemental Oxygen
2. Supplemental Oxygen

### Additional Information

- Only completed if a value is provided for Initial ED/Hospital Oxygen Saturation, otherwise report as "Not Applicable".
- Please note that first recorded/hospital vitals do not need to be from the same assessment.

### Data Source Hierarchy Guide

1. Triage/Trauma/Hospital Flow Sheet
2. Nurses Notes/Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
5301	1	Value is not a valid menu option
5303	2	Field cannot be blank

## INITIAL ED/HOSPITAL GCS - EYE

### Definition

First recorded Glasgow Coma Score (Eye) in the ED/hospital within 30 minutes or less of ED/hospital arrival.

<b>XSD Element Name:</b> GcsEye	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> GcsEye	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. No eye movement when assessed
2. Opens eyes in response to painful stimulation
3. Opens eyes in response to verbal stimulation
4. Opens eyes spontaneously

### Additional Information

- Used to calculate Overall GCS - ED Score.
- If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient withdraws from a painful stimulus," a Motor GCS of 4 may be recorded, IF there is no other contradicting documentation.
- Please note that first recorded/hospital vitals do not need to be from the same assessment.

### Data Source Hierarchy Guide

1. Triage/Trauma/Hospital Flow Sheet
2. Nurses Notes/Flow Sheet
3. Physician Notes/Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
5401	1	Value is not a valid menu option
5403	2	Field cannot be blank

**Definition**

First recorded Glasgow Coma Score (Verbal) within 30 minutes or less of ED/hospital arrival.

<b>XSD Element Name:</b> GcsVerbal	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> GcsVerbal	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

**Field Values**Pediatric ( $\leq 2$  years):

- |                                       |   |
|---------------------------------------|---|
| 1. No vocal response                  | 4. Cries but is consolable, inappropriate interactions    |
| 2. Inconsolable, agitated             | 5. Smiles, oriented to sounds, follows objects, interacts |
| 3. Inconsistently consolable, moaning |   |

Adult

- |                            |             |
|----------------------------|-------------|
| 1. No verbal response      | 4. Confused |
| 2. Incomprehensible sounds | 5. Oriented |
| 3. Inappropriate words     |             |

**Additional Information**

- Used to calculate Overall GCS - ED Score.
- If patient is intubated then the GCS Verbal score is equal to 1.
- If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient withdraws from a painful stimulus," a Motor GCS of 4 may be recorded, IF there is no other contradicting documentation.
- Please note that first recorded/hospital vitals do not need to be from the same assessment.

**Data Source Hierarchy Guide**

1. Triage/Trauma/Hospital Flow Sheet
2. Nurses Notes/Flow Sheet
3. Physician Notes/Flow Sheet

**Associated Edit Checks**

Rule ID	Level	Message
5501	1	Value is not a valid menu option
5503	2	Field cannot be blank

**Definition**

First recorded Glasgow Coma Score (Motor) within 30 minutes or less of ED/hospital arrival.

<b>XSD Element Name:</b> GcsMotor	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> GcsMotor	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

**Field Values**Pediatric ( $\leq 2$  years):

- |                      |  |
|----------------------|--|
| 1. No motor response | 4. Withdrawal from pain                |
| 2. Extension to pain | 5. Localizing pain                     |
| 3. Flexion to pain   | 6. Appropriate response to stimulation |

Adult

- |                      |                         |
|----------------------|-------------------------|
| 1. No motor response | 4. Withdrawal from pain |
| 2. Extension to pain | 5. Localizing pain      |
| 3. Flexion to pain   | 6. Obeys commands       |

**Additional Information**

- Used to calculate Overall GCS – ED Score.
- If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient withdraws from a painful stimulus," a Motor GCS of 4 may be recorded, IF there is no other contradicting documentation.
- Please note that first recorded/hospital vitals do not need to be from the same assessment.

**Data Source Hierarchy Guide**

1. Triage/Trauma/Hospital Flow Sheet
2. Nurses Notes/Flow Sheet
3. Physician Notes/Flow Sheet

**Associated Edit Checks**

Rule ID	Level	Message
5601	1	Value is not a valid menu option
5603	2	Field cannot be blank

**INITIAL ED/HOSPITAL GCS - TOTAL****Definition**

First recorded Glasgow Coma Score (total) within 30 minutes or less of ED/hospital arrival.

<b>XSD Element Name:</b> TotalGcs	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> TotalGcs	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 3 <b>Maximum Value:</b> 15	

**Field Values**

- Relevant value for data element

**Additional Information**

- If a patient does not have a numeric GCS recorded, but there is documentation related to their level of consciousness such as "AAOx3," "awake alert and oriented," or "patient with normal mental status," interpret this as GCS of 15 IF there is no other contradicting documentation.
- Please note that first recorded/hospital vitals do not need to be from the same assessment.

**Data Source Hierarchy Guide**

1. Triage/Trauma/Hospital Flow Sheet
2. Nurses Notes/Flow Sheet
3. Physician Notes/Flow Sheet

**Associated Edit Checks**

Rule ID	Level	Message
5701	1	GCS Total is outside the valid range of 3 - 15
5703	4	Initial ED/Hospital GCS - Total does not equal the sum of Initial ED/Hospital GCS - Eye, Initial ED/Hospital GCS - Verbal, and Initial ED/Hospital GCS - Motor
5704	4	ONE of the following: Initial ED/Hospital GCS - Eye, Initial ED/Hospital GCS - Verbal, or Initial ED/Hospital GCS - Motor is blank but Initial ED/Hospital GCS - Total is not: (1) blank, (2) Not Applicable, or (3) Not Known/Not Recorded
5705	2	Field cannot be blank

**Definition**

Documentation of factors potentially affecting the first assessment of GCS within 30 minutes or less of ED/hospital arrival.

<b>XSD Element Name:</b> GcsQualifier	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> GcsQualifier	<b>Multiple Entry Configuration:</b> Yes, max 3
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

**Field Values**

- |  |   |
|--|---|
| 1. Patient Chemically Sedated or Paralyzed | 3. Patient Intubated  |
| 2. Obstruction to the Patient's Eye        | 4. Valid GCS: Patient was not sedated, not intubated, and did not have obstruction to the eye |

**Additional Information**

- Identifies treatments given to the patient that may affect the first assessment of GCS. This field does not apply to self-medications the patient may administer (i.e., ETOH, prescriptions, etc.).
- If an intubated patient has recently received an agent that results in neuromuscular blockade such that a motor or eye response is not possible, then the patient should be considered to have an exam that is not reflective of their neurologic status and the chemical sedation modifier should be selected.
- Neuromuscular blockade is typically induced following the administration of agent like succinylcholine, mivacurium, rocuronium, (cis)atracurium, vecuronium, or pancuronium. While these are the most common agents, please review what might be typically used in your center so it can be identified in the medical record.
- Each of these agents has a slightly different duration of action, so their effect on the GCS depends on when they were given. For example, succinylcholine's effects last for only 5-10 minutes.
- Please note that first recorded/hospital vitals do not need to be from the same assessment.
- Check all that apply.

**Data Source Hierarchy Guide**

- Triage/Trauma/Hospital Flow Sheet
- Nurses Notes/Flow Sheet
- Physician Notes/Flow Sheet

**Associated Edit Checks**

Rule ID	Level	Message
5801	1	Value is not a valid menu option
5802	2	Field cannot be blank

**INITIAL ED/HOSPITAL HEIGHT****Definition**

First recorded height upon ED/hospital arrival.

<b>XSD Element Name:</b> Height	<b>XSD Schema Datatype:</b> xs:decimal
<b>XSD ComplexType:</b> Height	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0.00 <b>Maximum Value:</b> 244.00	

**Field Values**

- Relevant value for data element

**Additional Information**

- Recorded in centimeters.
- May be based on family or self-report.
- Please note that first recorded/hospital vitals do not need to be from the same assessment.

**Data Source Hierarchy Guide**

1. Triage/Trauma/Hospital Flow Sheet
2. Nurses Notes/Flow Sheet
3. Pharmacy Record

**Associated Edit Checks**

Rule ID	Level	Message
8501	1	Invalid value
8502	2	Field cannot be blank
8503	3	Height exceeds the max of 244 (cm)

**INITIAL ED/HOSPITAL WEIGHT****Definition**

Measured or estimated baseline weight.

<b>XSD Element Name:</b> Weight	<b>XSD Schema Datatype:</b> xs:decimal
<b>XSD ComplexType:</b> Weight	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0.0 <b>Maximum Value:</b> 907.00	

**Field Values**

- Relevant value for data element

**Additional Information**

- Recorded in kilograms.
- May be based on family or self-report.
- Please note that first recorded/hospital vitals do not need to be from the same assessment.

**Data Source Hierarchy Guide**

1. Triage/Trauma/Hospital Flow Sheet
2. Nurses Notes/Flow Sheet
3. Pharmacy Record

**Associated Edit Checks**

Rule ID	Level	Message
8601	1	Invalid value
8602	2	Field cannot be blank
8603	3	Weight exceeds the max of 907 (kg)

## ALCOHOL USE INDICATOR

### Definition

Use of alcohol by the patient.

<b>XSD Element Name:</b> AlcoholUseIndicators	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> AlcoholUseIndicators	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |                           |   |
|---------------------------|---|
| 1. No (not tested)        | 3. Yes (confirmed by test [trace levels])       |
| 2. No (confirmed by test) | 4. Yes (confirmed by test [beyond legal limit]) |

### Additional Information

- Blood alcohol concentration (BAC) may be documented at any facility, unit, or setting treating this patient event.
- "Trace levels" is defined as any alcohol level below the legal limit, but not zero.
- "Beyond legal limit" is defined as a blood alcohol concentration above the legal limit for the state in which the treating institution is located. Above any legal limit, DUI, DWI or DWAI, would apply here.
- If alcohol use is suspected, but not confirmed by test, record null value "Not Known/Not Recorded."

### Data Source Hierarchy Guide

- Lab Results
- Triage/Trauma/Hospital Flow Sheet
- Nursing Notes/Flow Sheet
- History & Physical

### Associated Edit Checks

Rule ID	Level	Message
5901	1	Value is not a valid menu option
5902	2	Field cannot be blank

## DRUG USE INDICATOR

### Definition

Use of drugs by the patient.

<b>XSD Element Name:</b> DrugUseIndicator	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> DrugUseIndicator	<b>Multiple Entry Configuration:</b> Yes, max 2
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |                           |  |
|---------------------------|--|
| 1. No (not tested)        | 3. Yes (confirmed by test [prescription drug]) |
| 2. No (confirmed by test) | 4. Yes (confirmed by test [illegal use drug])  |

### Additional Information

- Drug use may be documented at any facility, unit, or setting treating this patient event.
- "Illegal use drug" includes illegal use of prescription drugs.
- If drug use is suspected, but not confirmed by test, record null value "Not Known/Not Recorded."
- This data element refers to drug use by the patient and does not include medical treatment.
- Check all that apply.

### Data Source Hierarchy Guide

1. Lab Results
2. Triage/Trauma/Hospital Flow Sheet
3. Nursing Notes/Flow Sheet
4. History & Physical

### Associated Edit Checks

Rule ID	Level	Message
6001	1	Value is not a valid menu option
6002	2	Field cannot be blank

## ED DISCHARGE DISPOSITION

### Definition

The disposition of the patient at the time of discharge from the ED.

<b>XSD Element Name:</b> EdDischargeDisposition	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> EdDischargeDisposition	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |  |                                     |
|--|-------------------------------------|
| 1. Floor bed (general admission, non-specialty unit bed) | 7. Operating Room                   |
| 2. Observation unit (unit that provides < 24 hour stays) | 8. Intensive Care Unit (ICU)        |
| 3. Telemetry/step-down unit (less acuity than ICU)       | 9. Home without services            |
| 4. Home with services                                    | 10. Left against medical advice     |
| 5. Deceased/expired                                      | 11. Transferred to another hospital |
| 6. Other (jail, institutional care, mental health, etc.) |                                     |

### Additional Information

- The null value "Not Applicable" is used if the patient is directly admitted to the hospital.
- If ED Discharge Disposition is 4, 5, 6, 9, 10, 11, then Hospital Discharge Date, Time, and Disposition should be "Not Applicable".

### Data Source Hierarchy Guide

- Discharge Summary
- Nursing Notes/Flow Sheet
- Case Management/Social Services Notes
- ED Record
- History & Physical

### Associated Edit Checks

Rule ID	Level	Message
6101	1	Value is not a valid menu option
6102	2	Field cannot be blank
6104	2	Field cannot be Not Known/Not Recorded
6106	2	Field cannot not be Not Applicable when Hospital Discharge Date is Not Applicable
6107	2	Field cannot not be Not Applicable when Hospital Discharge Date is Not Known/Not Recorded
6108	2	Field cannot not be Not Applicable when Hospital Discharge Disposition is Not

		Applicable
6109	2	Field cannot not be Not Applicable when Hospital Discharge Disposition is Not Known/Not Recorded

## SIGNS OF LIFE

### Definition

Indication of whether patient arrived at ED/Hospital with signs of life.

<b>XSD Element Name:</b> DeathInEd	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> DeathInEd	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Arrived with NO signs of life

2. Arrived with signs of life

### Additional Information

- A patient with no signs of life is defined as having none of the following: organized EKG activity, pupillary responses, spontaneous respiratory attempts or movement, and unassisted blood pressure. This usually implies the patient was brought to the ED with CPR in progress.

### Data Source Hierarchy Guide

1. Triage/Trauma/Hospital Flow Sheet
2. Progress Notes
3. Nursing Notes/Flow Sheet
4. EMS Run Report
5. History & Physical

### Associated Edit Checks

Rule ID	Level	Message
6201	1	Value is not a valid menu option
6202	2	Field cannot be blank
6206	3	Field should not be Not Known/Not Recorded
6207	2	Field cannot be Not Applicable
6208	3	Field is 1 (Arrived with NO signs of life) when Initial ED/Hospital SBP > 0, Pulse > 0, OR GCS Motor > 1. Please verify.
6209	3	Field is 2 (Arrived with signs of life) when Initial ED/Hospital SBP = 0, Pulse = 0, AND GCS Motor = 1. Please verify.

## ED DISCHARGE DATE

### Definition

The date the order was written for the patient to be discharged from the ED.

<b>XSD Element Name:</b> EdDischargeDate	<b>XSD Schema Datatype:</b> xs:date
<b>XSD ComplexType:</b> Date19902030	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 1990-01-01 <b>Maximum Value:</b> 2030-01-01	

### Field Values

- Relevant value for data element

### Additional Information

- Collected as YYYY-MM-DD.
- Used to auto-generate an additional calculated field: Total ED Time: (elapsed time from ED admit to ED discharge).
- The null value "Not Applicable" is used if the patient is directly admitted to the hospital.
- If ED Discharge Disposition is 5 Deceased/Expired, then ED Discharge Date is the date of death as indicated on the patient's death certificate.

### Data Source Hierarchy Guide

1. ED Record
2. Triage/Trauma/Hospital Flow Sheet
3. Nursing Notes/Flow Sheet
4. Discharge Summary
5. Billing Sheet
6. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
6301	1	Date is not valid
6302	1	Date out of range
6303	2	Field cannot be blank
6304	4	ED Discharge Date is earlier than EMS Dispatch Date
6305	4	ED Discharge Date is earlier than EMS Unit Arrival on Scene Date
6306	4	ED Discharge Date is earlier than EMS Unit Scene Departure Date
6307	2	ED Discharge Date is earlier than ED/Hospital Arrival Date
6308	2	ED Discharge Date is later than Hospital Discharge Date
6309	3	ED Discharge Date is earlier than Date of Birth

6310      3      ED Discharge Date minus ED/Hospital Arrival Date is greater than 365 days

## ED DISCHARGE TIME

### Definition

The time the order was written for the patient to be discharged from the ED.

<b>XSD Element Name:</b> EdDischargeTime	<b>XSD Schema Datatype:</b> xs:time
<b>XSD ComplexType:</b> Time	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element

### Additional Information

- Collected as HH:MM military time.
- Used to auto-generate an additional calculated field: Total ED Time (elapsed time from ED admit to ED discharge).
- The null value "Not Applicable" is used if the patient is directly admitted to the hospital.
- If ED Discharge Disposition is 5 Deceased/Expired, then ED Discharge Time is the time of death as indicated on the patient's death certificate.

### Data Source Hierarchy Guide

1. ED Record
2. Triage/Trauma/Hospital Flow Sheet
3. Nursing Notes/Flow Sheet
4. Discharge Summary
5. Billing Sheet
6. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
6401	1	Time is not valid
6402	1	Time out of range
6403	2	Field cannot be blank
6404	4	ED Discharge Time is earlier than EMS Dispatch Time
6405	4	ED Discharge Time is earlier than EMS Unit Arrival on Scene Time
6406	4	ED Discharge Time is earlier than EMS Unit Scene Departure Time
6407	4	ED Discharge Time is earlier than ED/Hospital Arrival Time
6408	4	ED Discharge Time is later than Hospital Discharge Time

## Hospital Procedure Information

**Definition**

Operative and selected non-operative procedures conducted during hospital stay. Operative and selected non-operative procedures are those that were essential to the diagnosis, stabilization, or treatment of the patient's specific injuries or complications. The list of procedures below should be used as a guide to non-operative procedures that should be provided to NTDB. This list is based on procedures sent to NTDB with a high frequency. Not all hospitals capture all procedures listed below. Please transmit those procedures that you capture to NTDB.

<b>XSD Element Name:</b> HospitalProcedure	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> HospitalProcedure	<b>Multiple Entry Configuration:</b> Yes, max 200
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Length:</b> 4 <b>Maximum Length:</b> 7	<b>RegEx Pattern:</b> (\d{2}\.\d{1,2})

**Field Values**

- Major and minor procedure ICD-9-CM procedure codes.
- The maximum number of procedures that may be reported for a patient is 200.

**Additional Information**

- The null value "Not Applicable" is used if the patient did not have procedures.
- The null value "Not Applicable" is used if not coding ICD-9.
- Include only procedures performed at your institution.
- Capture all procedures performed in the operating room.
- Capture all procedures in the ED, ICU, ward, or radiology department that were essential to the diagnosis, stabilization, or treatment of the patient's specific injuries or their complications.
- Procedures with an asterisk have the potential to be performed multiple times during one episode of hospitalization. In this case, capture only the first event. If there is no asterisk, capture each event even if there is more than one.
- Note that the hospital may capture additional procedures.

**Diagnostic and Therapeutic Imaging**

Computerized tomographic studies \*

Diagnostic ultrasound (includes FAST) \*

Doppler ultrasound of extremities \*

Angiography

Angioembolization

Echocardiography

Cystogram

IVC filter

Urethrogram

**Genitourinary**

Ureteric catheterization (i.e. Ureteric stent)

Suprapubic cystostomy

**Transfusion**

The following blood products should be captured over first 24 hours after hospital arrival:

Transfusion of red cells \*

Transfusion of platelets \*

Transfusion of plasma \*

**Respiratory**

**Cardiovascular**

Central venous catheter \*

Pulmonary artery catheter \*

Cardiac output monitoring \*

Open cardiac massage

CPR

**CNS**

Insertion of ICP monitor \*

Ventriculostomy \*

Cerebral oxygen monitoring \*

**Musculoskeletal**

Soft tissue/bony debridements \*

Closed reduction of fractures

Skeletal and halo traction

Fasciotomy

Insertion of endotracheal tube\*

Continuous mechanical ventilation \*

Chest tube \*

Bronchoscopy \*

Tracheostomy

**Gastrointestinal**

Endoscopy (includes gastroscopy, sigmoidoscopy, colonoscopy)

Gastrostomy/jejunostomy (percutaneous or endoscopic)

Percutaneous (endoscopic) gastrojejunoscopy

**Other**

Hyperbaric oxygen

Decompression chamber

TPN \*

**Data Source Hierarchy Guide**

1. Operative Reports
2. Procedure Notes
3. Trauma Flow Sheet
4. ED Record
5. Nursing Notes/Flow Sheet
6. Radiology Reports
7. Discharge Summary

**Associated Edit Checks**

Rule ID	Level	Message
6501	1	Invalid value
6502	1	Procedures with the same code cannot have the same Hospital Procedure Start Date and Time.
6503	2	Field cannot be blank
6504	4	Field should not be Not Applicable unless patient had no procedures performed or if not coding ICD-9

## ICD-10 HOSPITAL PROCEDURES

### Definition

Operative and selected non-operative procedures conducted during hospital stay. Operative and selected non-operative procedures are those that were essential to the diagnosis, stabilization, or treatment of the patient's specific injuries or complications. The list of procedures below should be used as a guide to non-operative procedures that should be provided to NTDB. This list is based on procedures sent to NTDB with a high frequency. Not all hospitals capture all procedures listed below. Please transmit those procedures that you capture to NTDB.

<b>XSD Element Name:</b> HospitalProcedureIcd10	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> HospitalProcedureIcd10	<b>Multiple Entry Configuration:</b> Yes, max 200
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Length:</b> 5 <b>Maximum Length:</b> 10	

### Field Values

- Major and minor procedure ICD-10-CM procedure codes.
- The maximum number of procedures that may be reported for a patient is 200.

### Additional Information

- The null value "Not Applicable" is used if the patient did not have procedures.
- The null value "Not Applicable" is used if not coding ICD-10.
- Include only procedures performed at your institution.
- Capture all procedures performed in the operating room.
- Capture all procedures in the ED, ICU, ward, or radiology department that were essential to the diagnosis, stabilization, or treatment of the patient's specific injuries or their complications.
- Procedures with an asterisk have the potential to be performed multiple times during one episode of hospitalization. In this case, capture only the first event. If there is no asterisk, capture each event even if there is more than one.
- Note that the hospital may capture additional procedures.

#### Diagnostic and Therapeutic Imaging

Computerized tomographic studies \*

Diagnostic ultrasound (includes FAST) \*

Doppler ultrasound of extremities \*

Angiography

Angioembolization

Echocardiography

Cystogram

IVC filter

Urethrogram

#### Genitourinary

Ureteric catheterization (i.e. Ureteric stent)

Suprapubic cystostomy

#### Transfusion

The following blood products should be captured over first 24 hours after hospital arrival:

Transfusion of red cells \*

Transfusion of platelets \*

Transfusion of plasma \*

#### Respiratory

**Cardiovascular**

Central venous catheter \*

Pulmonary artery catheter \*

Cardiac output monitoring \*

Open cardiac massage

CPR

**CNS**

Insertion of ICP monitor \*

Ventriculostomy \*

Cerebral oxygen monitoring \*

**Musculoskeletal**

Soft tissue/bony debridements \*

Closed reduction of fractures

Skeletal and halo traction

Fasciotomy

Insertion of endotracheal tube\*

Continuous mechanical ventilation \*

Chest tube \*

Bronchoscopy \*

Tracheostomy

**Gastrointestinal**

Endoscopy (includes gastroscopy, sigmoidoscopy, colonoscopy)

Gastrostomy/jejunostomy (percutaneous or endoscopic)

Percutaneous (endoscopic) gastrojejunoscopy

**Other**

Hyperbaric oxygen

Decompression chamber

TPN \*

**Data Source Hierarchy Guide**

1. Operative Reports
2. Procedure Notes
3. Trauma Flow Sheet
4. ED Record
5. Nursing Notes/Flow Sheet
6. Radiology Reports
7. Discharge Summary

**Associated Edit Checks**

Rule ID	Level	Message
8801	1	Invalid value (ICD-10 CM only)
8802	1	Procedures with the same code cannot have the same Hospital Procedure Start Date and Time
8803	2	Field cannot be blank
8804	4	Field should not be Not Applicable unless patient had no procedures performed or if not coding ICD-10
8805	1	Invalid value (ICD-10 CA only)

## HOSPITAL PROCEDURE START DATE

### Definition

The date operative and selected non-operative procedures were performed.

<b>XSD Element Name:</b> HospitalProcedureStartDate	<b>XSD Schema Datatype:</b> xs:date
<b>XSD ComplexType:</b> Date19902030	<b>Multiple Entry Configuration:</b> Yes, max 200
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 1990-01-01 <b>Maximum Value:</b> 2030-01-01	

### Field Values

- Relevant value for data element

### Additional Information

- Collected as YYYY-MM-DD.

### Data Source Hierarchy Guide

1. Operative Reports
2. Procedure Notes
3. Trauma Flow Sheet
4. ED Record
5. Nursing Notes/Flow Sheet
6. Radiology Reports
7. Discharge Summary

### Associated Edit Checks

Rule ID	Level	Message
6601	1	Date is not valid
6602	1	Date out of range
6603	4	Hospital Procedure Start Date is earlier than EMS Dispatch Date
6604	4	Hospital Procedure Start Date is earlier than EMS Unit Arrival on Scene Date
6605	4	Hospital Procedure Start Date is earlier than EMS Unit Scene Departure Date
6606	4	Hospital Procedure Start Date is earlier than ED/Hospital Arrival Date
6607	4	Hospital Procedure Start Date is later than Hospital Discharge Date
6608	4	Hospital Procedure Start Date is earlier than Date of Birth
6609	2	Field cannot be blank

## HOSPITAL PROCEDURE START TIME

### Definition

The time operative and selected non-operative procedures were performed.

<b>XSD Element Name:</b> HospitalProcedureStartTime	<b>XSD Schema Datatype:</b> xs:time
<b>XSD ComplexType:</b> Time	<b>Multiple Entry Configuration:</b> Yes, max 200
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element

### Additional Information

- Collected as HH:MM military time.
- Procedure start time is defined as the time the incision was made (or the procedure started).
- If distinct procedures with the same procedure code are performed, their start times must be different.

### Data Source Hierarchy Guide

1. Operative Reports
2. Anesthesia Reports
3. Procedure Notes
4. Trauma Flow Sheet
5. ED Record
6. Nursing Notes/Flow Sheet
7. Radiology Reports
8. Discharge Summary

### Associated Edit Checks

Rule ID	Level	Message
6701	1	Time is not valid
6702	1	Time out of range
6703	4	Hospital Procedure Start Time is earlier than EMS Dispatch Time
6704	4	Hospital Procedure Start Time is earlier than EMS Unit Arrival on Scene Time
6705	4	Hospital Procedure Start Time is earlier than EMS Unit Scene Departure Time
6706	4	Hospital Procedure Start Time is earlier than ED/Hospital Arrival Time
6707	4	Hospital Procedure Start Time is later than Hospital Discharge Time
6708	2	Field cannot be blank

## Diagnosis Information

## CO-MORBID CONDITIONS

### Definition

Pre-existing co-morbid factors present before patient arrival at the ED/hospital.

<b>XSD Element Name:</b> ComorbidCondition	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> ComorbidCondition	<b>Multiple Entry Configuration:</b> Yes, max 25
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |   |   |
|---|---|
| 1. Other  | 16. History of angina within 30 days  |
| 2. Alcohol Use Disorder                           | 17. History of myocardial infarction  |
| 3. <del>RETIRED 2015 Ascites within 30 days</del> | 18. History of Peripheral Vascular Disease (PVD)  |
| 4. Bleeding disorder                              | 19. Hypertension requiring medication   |
| 5. Currently receiving chemotherapy for cancer    | 20. <del>RETIRED 2012 Impaired sensorium</del>  |
| 6. Congenital anomalies                           | 21. Prematurity   |
| 7. Congestive heart failure                       | 22. <del>RETIRED 2015 Obesity</del>   |
| 8. Current smoker                                 | 23. Chronic Obstructive Pulmonary Disease (COPD)  |
| 9. Chronic renal failure                          | 24. Steroid use   |
| 10. Cerebrovascular Accident (CVA)                | 25. Cirrhosis   |
| 11. Diabetes mellitus                             | 26. Dementia  |
| 12. Disseminated cancer                           | 27. Major psychiatric illness   |
| 13. Advanced directive limiting care              | 28. Drug use disorder   |
| 14. <del>RETIRED 2015 Esophageal varices</del>    | 29. <del>RETIRED 2015 Pre-hospital cardiac arrest with resuscitative efforts by healthcare provider</del> |
| 15. Functionally dependent health status          | 30. Attention deficit disorder/attention deficit hyperactivity disorder (ADD/ADHD)                        |

### Additional Information

- The null value "Not Applicable" is used for patients with no known co-morbid conditions.
- For any Co-Morbid Condition to be valid, there must be a diagnosis noted in the patient medical record that meets the definition noted in Appendix 3: Glossary of Terms.
- Check all that apply.

### Data Source Hierarchy Guide

1. History & Physical
2. Physician's Notes
3. Progress Notes
4. Case Management/Social Services
5. Nursing Notes/Flow Sheet
6. Triage/Trauma Flow Sheet

## 7. Discharge Summary

### Associated Edit Checks

Rule ID	Level	Message
6801	1	Value is not a valid menu option
6802	2	Field cannot be blank

## ICD-9 INJURY DIAGNOSES

### Definition

Diagnoses related to all identified injuries.

<b>XSD Element Name:</b> InjuryDiagnosis	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> InjuryDiagnosis	<b>Multiple Entry Configuration:</b> Yes, max 50
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Length:</b> 3 <b>Maximum Length:</b> 6	<b>RegEx Pattern:</b> ((([vV] [0-9])\d{2}(\.\d{1,2})?))

### Field Values

- Injury diagnoses as defined by ICD-9-CM code range: 800-959.9, except for 905 – 909.9, 910 – 924.9, 930 – 939.9. The maximum number of diagnoses that may be reported for an individual patient is 50.

### Additional Information

- ICD-9-CM codes pertaining to other medical conditions (e.g., CVA, MI, co-morbidities, etc.) may also be included in this field.
- Used to auto-generate additional calculated fields: Abbreviated Injury Scale (six body regions) and Injury Severity Score.
- The null value "Not Applicable" is used if not coding ICD-9.

### Data Source Hierarchy Guide

1. Autopsy/Medical Examiner Report
2. Operative Reports
3. Radiology Reports
4. Physician's Notes
5. Trauma Flow Sheet
6. History & Physical
7. Nursing Notes/Flow Sheet
8. Progress Notes
9. Discharge Summary

### Associated Edit Checks

Rule ID	Level	Message
6901	1	Invalid value
6902	2	Field cannot be blank, must either (1) contain a valid ICD-9 code or (2) be Not Applicable if not coding ICD-9
6903	2	If coding with ICD-9, then at least one diagnosis must be provided and meet inclusion criteria (800 - 959.9, except for 905 - 909.9, 910 - 924.9, 930 - 939.9)
6904	4	Field should not be Not Known/Not Recorded

## ICD-10 INJURY DIAGNOSES

### Definition

Diagnoses related to all identified injuries.

<b>XSD Element Name:</b> DiagnosisIcd10	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> DiagnosisIcd10	<b>Multiple Entry Configuration:</b> Yes, max 50
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Length:</b> 3 <b>Maximum Length:</b> 8	

### Field Values

- Injury diagnoses as defined by ICD-10-CM code range S00-S99, T07, T14, T20-T28 and T30-T32.
- The maximum number of diagnoses that may be reported for an individual patient is 50.

### Additional Information

- ICD-10-CM codes pertaining to other medical conditions (e.g., CVA, MI, co-morbidities, etc.) may also be included in this field.
- Used to auto-generate additional calculated fields: Abbreviated Injury Scale (six body regions) and Injury Severity Score.
- The null value "Not Applicable" is used if not coding ICD-10.

### Data Source Hierarchy Guide

1. Autopsy/Medical Examiner Report
2. Operative Reports
3. Radiology Reports
4. Physician's Notes
5. Trauma Flow Sheet
6. History & Physical
7. Nursing Notes/Flow Sheet
8. Progress Notes
9. Discharge Summary

### Associated Edit Checks

Rule ID	Level	Message
8701	1	Invalid value (ICD-10 CM only)
8702	2	Field cannot be blank, must either (1) contain a valid ICD-10 code or (2) be Not Applicable if not coding ICD-10
8703	2	If coding with ICD-10, then at least one diagnosis must be provided and meet inclusion criteria. (ICD-10 CM only)
8704	4	Field should not be Not Known/Not Recorded
8705	1	Invalid value (ICD-10 CA only)

8706	2	If coding with ICD-10, then at least one diagnosis must be provided and meet inclusion criteria. (ICD-10 CA only)
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## **Injury Severity Information**

## AIS PREDOT CODE

IS\_01

### Definition

The Abbreviated Injury Scale (AIS) PreDot codes that reflect the patient's injuries.

<b>XSD Element Name:</b> AisPredot	<b>XSD Schema Datatype:</b> xs:string
<b>XSD ComplexType:</b> AisPredot	<b>Multiple Entry Configuration:</b> Yes, max 50
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- The predot code is the 6 digits preceding the decimal point in an associated AIS code

### Additional Information

### Data Source Hierarchy Guide

### Associated Edit Checks

Rule ID	Level	Message
7001	1	Invalid value
7004	3	AIS codes submitted are not valid AIS 05, Update 08 codes
7007	2	Field cannot be blank

## AIS SEVERITY

### Definition

The Abbreviated Injury Scale (AIS) severity codes that reflect the patient's injuries.

<b>XSD Element Name:</b> AisSeverity	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> AisSeverity	<b>Multiple Entry Configuration:</b> Yes, max 50
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |                    |   |
|--------------------|---|
| 1. Minor Injury    | 5. Critical Injury                        |
| 2. Moderate Injury | 6. Maximum Injury, Virtually Unsurvivable |
| 3. Serious Injury  | 9. Not Possible to Assign                 |
| 4. Severe Injury   |   |

### Additional Information

- The field value (9) "Not Possible to Assign" would be chosen if it is not possible to assign a severity to an injury.

### Data Source Hierarchy Guide

### Associated Edit Checks

Rule ID	Level	Message
7101	1	Value is not a valid menu option
7103	2	Field cannot be blank

## AIS VERSION

IS\_03

### Definition

The software (and version) used to calculate Abbreviated Injury Scale (AIS) severity codes.

<b>XSD Element Name:</b> AisVersion	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> AisVersion	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

~~1. RETIRED 2016 AIS 80~~

~~4. RETIRED 2016 AIS 95~~

~~2. RETIRED 2016 AIS 85~~

~~5. RETIRED 2016 AIS 98~~

~~3. RETIRED 2016 AIS 90~~

6. AIS 05, Update 08

### Additional Information

### Data Source Hierarchy Guide

### Associated Edit Checks

Rule ID	Level	Message
7301	1	Value is not a valid menu option
7302	2	Field cannot be blank

## Outcome Information

## TOTAL ICU LENGTH OF STAY

O\_01

### Definition

The cumulative amount of time spent in the ICU. Each partial or full day should be measured as one calendar day.

<b>XSD Element Name:</b> TotalIcuLos	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> TotalIcuLos	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 1 <b>Maximum Value:</b> 575	

### Field Values

- Relevant value for data element

### Additional Information

- Recorded in full day increments with any partial calendar day counted as a full calendar day.
- The calculation assumes that the date and time of starting and stopping an ICU episode are recorded in the patient's chart.
- If any dates are missing then a LOS cannot be calculated.
- If patient has multiple ICU episodes on the same calendar day, count that day as one calendar day.
- At no time should the ICU LOS exceed the Hospital LOS.
- The null value "Not Applicable" is used if the patient had no ICU days according to the above definition.

## Data Source Hierarchy Guide

1. ICU Flow Sheet
2. Nursing Notes/Flow Sheet

## Associated Edit Checks

Rule ID	Level	Message
7501	1	Total ICU Length of Stay is outside the valid range of 1 - 575
7502	2	Field cannot be blank
7503	3	Total ICU Length of Stay is greater than the difference between ED/Hospital Arrival Date and Hospital Discharge Date
7504	3	Value is greater than 365, please verify this is correct

## TOTAL VENTILATOR DAYS

### Definition

The cumulative amount of time spent on the ventilator. Each partial or full day should be measured as one calendar day.

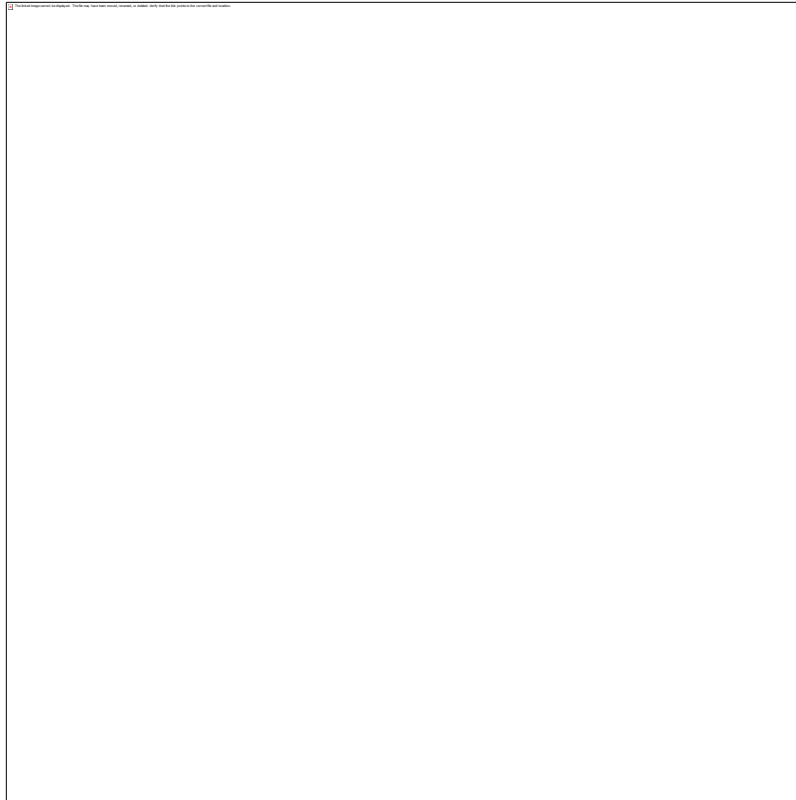
<b>XSD Element Name:</b> TotalVentDays	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> TotalVentDays	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 1 <b>Maximum Value:</b> 575	

### Field Values

- Relevant value for data element

### Additional Information

- Excludes mechanical ventilation time associated with OR procedures.
- Non-invasive means of ventilatory support (CPAP or BIPAP) should not be considered in the calculation of ventilator days.
- Recorded in full day increments with any partial calendar day counted as a full calendar day.
- The calculation assumes that the date and time of starting and stopping Ventilator episode are recorded in the patient's chart.
- If any dates are missing then a Total Vent Days cannot be calculated.
- At no time should the Total Vent Days exceed the Hospital LOS.
- The null value "Not Applicable" is used if the patient was not on the ventilator according to the above definition.



### Data Source Hierarchy Guide

1. Respiratory Therapy Notes/Flow Sheet
2. ICU Flow Sheet
3. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
7601	1	Total Ventilator Days is outside the valid range of 1 - 575
7602	2	Field cannot be blank
7603	4	Total Ventilator Days should not be greater than the difference between ED/Hospital Arrival Date and Hospital Discharge Date
7604	4	Value is greater than 365, please verify this is correct

## HOSPITAL DISCHARGE DATE

O\_03

### Definition

The date the order was written for the patient to be discharged from the hospital.

<b>XSD Element Name:</b> HospitalDischargeDate	<b>XSD Schema Datatype:</b> xs:date
<b>XSD ComplexType:</b> Date19902030	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 1990-01-01 <b>Maximum Value:</b> 2030-01-01	

### Field Values

- Relevant value for data element

### Additional Information

- Collected as YYYY-MM-DD.
- Used to auto-generate an additional calculated field: Total Length of Hospital Stay (elapsed time from ED/hospital arrival to hospital discharge).
- The null value "Not Applicable" is used if ED Discharge Disposition = 5 Deceased/Expired.
- The null value "Not Applicable" is used if ED Discharge Disposition = 4,6,9,10, or 11.
- If Hospital Discharge Disposition is 5 Deceased/Expired, then Hospital Discharge Date is the date of death as indicated on the patient's death certificate.

### Data Source Hierarchy Guide

1. Discharge Instructions
2. Nursing Notes/Flow Sheet
3. Case Management/Social Services Notes
4. Discharge Summary

### Associated Edit Checks

Rule ID	Level	Message
7701	1	Date is not valid
7702	1	Date out of range
7703	2	Field cannot be blank
7704	3	Hospital Discharge Date is earlier than EMS Dispatch Date
7705	3	Hospital Discharge Date is earlier than EMS Unit Arrival on Scene Date
7706	3	Hospital Discharge Date is earlier than EMS Unit Scene Departure Date
7707	2	Hospital Discharge Date is earlier than ED/Hospital Arrival Date
7708	2	Hospital Discharge Date is earlier than ED Discharge Date
7709	3	Hospital Discharge Date is earlier than Date of Birth

- |      |   |  |
|------|---|--|
| 7710 | 3 | Hospital Discharge Date minus Injury Incident Date is greater than 365 days, please verify this is correct     |
| 7711 | 3 | Hospital Discharge Date minus ED/Hospital Arrival Date is greater than 365 days, please verify this is correct |
| 7712 | 2 | Field must be Not Applicable when ED Discharge Disposition = 4,6,9,10, or 11                                   |
| 7713 | 2 | Field must be Not Applicable when ED Discharge Disposition = 5 (Died)  |

## HOSPITAL DISCHARGE TIME

### Definition

The time the order was written for the patient to be discharged from the hospital.

<b>XSD Element Name:</b> HospitalDischargeTime	<b>XSD Schema Datatype:</b> xs:time
<b>XSD ComplexType:</b> Time	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element

### Additional Information

- Collected as HH:MM military time.
- Used to auto-generate an additional calculated field: Total Length of Hospital Stay (elapsed time from ED/hospital arrival to hospital discharge).
- The null value "Not Applicable" is used if ED Discharge Disposition = 5 (Deceased/expired).
- The null value "Not Applicable" is used if ED Discharge Disposition = 4,6,9,10, or 11.
- If Hospital Discharge Disposition is 5 Deceased/Expired, then Hospital Discharge Time is the time of death as indicated on the patient's death certificate.

### Data Source Hierarchy Guide

1. Discharge Instructions
2. Nursing Notes/Flow Sheet
3. Case Management/Social Services Notes
4. Discharge Summary

### Associated Edit Checks

Rule ID	Level	Message
7801	1	Time is not valid
7802	1	Time out of range
7803	2	Field cannot be blank
7804	4	Hospital Discharge Time is earlier than EMS Dispatch Time
7805	4	Hospital Discharge Time is earlier than EMS Unit Arrival on Scene Time
7806	4	Hospital Discharge Time is earlier than EMS Unit Scene Departure Time
7807	4	Hospital Discharge Time is earlier than ED/Hospital Arrival Time
7808	4	Hospital Discharge Time is earlier than ED Discharge Time
7809	2	Field must be Not Applicable when ED Discharge Disposition = 4,6,9,10, or 11
7810	2	Field must be Not Applicable when ED Discharge Disposition = 5 (Died)

## HOSPITAL DISCHARGE DISPOSITION

O\_05

### Definition

The disposition of the patient when discharged from the hospital.

<b>XSD Element Name:</b> HospitalDischargeDisposition	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> HospitalDischargeDisposition	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |   |  |
|---|--|
| 1. Discharged/Transferred to a short-term general hospital for inpatient care | 8. Discharged/ Transferred to hospice care   |
| 2. Discharged/Transferred to an Intermediate Care Facility (ICF)              | <del>9. RETIRED 2014 Discharged/Transferred to another type of rehabilitation or long-term care facility</del> |
| 3. Discharge/Transferred to home under care of organized home health service  | 10. Discharged/Transferred to court/law enforcement.   |
| 4. Left against medical advice or discontinued care                           | 11. Discharged/Transferred to inpatient rehab or designated unit   |
| 5. Deceased/expired   | 12. Discharged/Transferred to Long Term Care Hospital (LTCH)   |
| 6. Discharged to home or self-care (routine discharge)                        | 13. Discharged/Transferred to a psychiatric hospital or psychiatric distinct part unit of a hospital           |
| 7. Discharged/Transferred to Skilled Nursing Facility (SNF)                   | 14. Discharged/Transferred to another type of institution not defined elsewhere                                |

### Additional Information

- Field value = 6, "home" refers to the patient's current place of residence (e.g., prison, Child Protective Services etc.)
- Field values based upon UB-04 disposition coding.
- Disposition to any other non-medical facility should be coded as 6.
- Disposition to any other medical facility should be coded as 14.
- The null value "Not Applicable" is used if ED Discharge Disposition = 5 (Deceased/expired).
- The null value "Not Applicable" is used if ED Discharge Disposition = 4,6,9,10, or 11.

### Data Source Hierarchy Guide

1. Discharge Instructions
2. Case Management/Social Services Notes
3. Nursing Notes/Flow Sheet
4. Discharge Summary

#### Associated Edit Checks

Rule ID	Level	Message
7901	1	Value is not a valid menu option
7902	2	Field cannot be blank
7903	2	Field must be Not Applicable when ED Discharge Disposition = 5 (Died)
7907	2	Field must be Not Applicable when ED Discharge Disposition = 4,6,9,10, or 11
7908	2	Field cannot be Not Applicable
7909	2	Field cannot be Not Known/Not Recorded when Hospital Arrival Date and Hospital Discharge Date are not: (1) blank, (2) Not Applicable, or (3) Not Known/Not Recorded

## Financial Information

## PRIMARY METHOD OF PAYMENT

### Definition

Primary source of payment for hospital care.

<b>XSD Element Name:</b> PrimaryMethodPayment	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> PrimaryMethodPayment	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |  |   |
|--|---|
| 1. Medicaid                                    | 6. Medicare                                       |
| 2. Not Billed (for any reason)                 | 7. Other Government                               |
| 3. Self-Pay                                    | <del>8. RETIRED 2015 Workers Compensation</del>   |
| 4. Private/Commercial Insurance                | <del>9. RETIRED 2015 Blue Cross/Blue Shield</del> |
| <del>5. RETIRED 2015 No Fault Automobile</del> | 10. Other   |

### Additional Information

- No Fault Automobile, Workers Compensation, and Blue Cross/Blue Shield should be captured as Private/Commercial Insurance.

### Data Source Hierarchy Guide

- Billing Sheet
- Admission Form
- Face Sheet

### Associated Edit Checks

Rule ID	Level	Message
8001	1	Value is not a valid menu option
8002	2	Field cannot be blank

## Quality Assurance Information

## HOSPITAL COMPLICATIONS

### Definition

Any medical complication that occurred during the patient's stay at your hospital.

<b>XSD Element Name:</b> HospitalComplication	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> HospitalComplication	<b>Multiple Entry Configuration:</b> Yes, max 23
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |   |   |
|---|---|
| 1. Other  | 19. Organ/space surgical site infection                             |
| <del>2. RETIRED 2011 Abdominal compartment syndrome</del> | <del>20. RETIRED 2016 Pneumonia</del>                               |
| <del>3. RETIRED 2011 Abdominal fascia left open</del>     | 21. Pulmonary embolism  |
| 4. Acute kidney injury                                    | 22. Stroke / CVA  |
| 5. Adult respiratory distress syndrome (ARDS)             | 23. Superficial surgical site infection                             |
| <del>6. RETIRED 2011 Base deficit</del>                   | <del>24. RETIRED 2011 Systemic sepsis</del>                         |
| <del>7. RETIRED 2011 Bleeding</del>                       | 25. Unplanned intubation  |
| 8. Cardiac arrest with CPR                                | <del>26. RETIRED 2011 Wound disruption</del>                        |
| <del>9. RETIRED 2011 Coagulopathy</del>                   | <del>27. RETIRED 2016 Urinary tract infection</del>                 |
| <del>10. RETIRED 2011 Coma</del>                          | <del>28. RETIRED 2016 Catheter-related blood stream infection</del> |
| 11. Decubitus ulcer                                       | 29. Osteomyelitis   |
| 12. Deep surgical site infection                          | 30. Unplanned return to the OR                                      |
| 13. Drug or alcohol withdrawal syndrome                   | 31. Unplanned admission to the ICU                                  |
| 14. Deep vein thrombosis (DVT)                            | 32. Severe sepsis   |
| 15. Extremity compartment syndrome                        | 33. Catheter-associated urinary tract infection (CAUTI)             |
| <del>16. RETIRED 2016 Graft/prosthesis/flap failure</del> | 34. Central line-associated bloodstream infection (CLABSI)          |
| <del>17. RETIRED 2011 Intracranial pressure</del>         | 35. Ventilator-associated pneumonia (VAP)                           |
| 18. Myocardial infarction                                 |   |

### Additional Information

- The null value "Not Applicable" should be used for patients with no complications.
- For any Hospital Complication to be valid, there must be a diagnosis noted in the patient medical record that meets the definition noted in Appendix 3: Glossary of Terms.
- For all Hospital Complications that follow the CDC definition [e.g., VAP, CAUTI, CLABSI, Osteomyelitis] always use the most recent definition provided by the CDC.
- Check all that apply.

## Data Source Hierarchy Guide

1. Physician Notes
2. Operative Report
3. Progress Notes
4. Radiology Report
5. Respiratory Notes
6. Lab Reports
7. Nursing Notes/Flow Sheet
8. Discharge Summary

## Associated Edit Checks

Rule ID	Level	Message
8101	1	Value is not a valid menu option
8102	2	Field cannot be blank
8103	3	Hospital Complications include Ventilator Associated Pneumonia although Total Ventilator Days is Not Applicable. Please verify.

## **TRAUMA QUALITY IMPROVEMENT PROGRAM**

### **Measures for Processes of Care**

**\*\*The field in this section should be collected and transmitted by TQIP participating centers only. Please contact us at [tqip@facs.org](mailto:tqip@facs.org) for information about joining TQIP.\*\***

## HIGHEST GCS TOTAL

Collection Criterion: Collect on patients with at least one injury in AIS head region

### Definition

Highest total GCS within 24 hours of ED/Hospital arrival.

<b>XSD Element Name:</b> TbiHighestTotalGcs	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> TotalGcs	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 3 <b>Maximum Value:</b> 15	

### Field Values

- Relevant value for data element

### Additional Information

- Refers to highest total GCS within 24 hours after ED Hospital/Arrival to index hospital, where index hospital is the hospital abstracting the data.
- Requires review of all data sources to obtain the highest GCS total. In many cases, the highest GCS may occur after ED discharge.
- If patient is intubated then the GCS Verbal score is equal to 1.
- Best obtained when sedatives or paralytics are withheld as part of sedation holiday.
- If a patient does not have a numeric GCS recorded, but there is documentation related to their level of consciousness such as "AAOx3," "awake alert and oriented," or "patient with normal mental status," interpret this as GCS of 15 IF there is no other contradicting documentation.
- The null value "Not Applicable" is used for patients that do not meet collection criteria.

### Data Source Hierarchy Guide

1. Neuro Assessment Flow Sheet
2. Triage/Trauma/ICU Flow Sheet
3. Nursing Notes/Flow Sheet
4. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
10001	1	GCS Total is outside the valid range of 3 - 15
10002	2	Field cannot be blank
10003	2	Highest GCS Total is less than GCS Motor Component of Highest GCS Total
10004	2	Field should be Not Applicable as the AIS codes provided do not meet collection criteria
10005	2	Field should not be Not Applicable as the AIS codes provided meet the collection criteria

## HIGHEST GCS MOTOR

Collection Criterion: Collect on patients with at least one injury in AIS head region

### Definition

Highest motor GCS within 24 hours of ED/Hospital arrival.

<b>XSD Element Name:</b> TbiGcsMotor	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> GcsMotor	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

#### Pediatric ( $\leq 2$ years):

- |                      |  |
|----------------------|--|
| 1. No motor response | 4. Withdrawal from pain                |
| 2. Extension to pain | 5. Localizing pain                     |
| 3. Flexion to pain   | 6. Appropriate response to stimulation |

#### Adult

- |                      |                         |
|----------------------|-------------------------|
| 1. No motor response | 4. Withdrawal from pain |
| 2. Extension to pain | 5. Localizing pain      |
| 3. Flexion to pain   | 6. Obeys commands       |

### Additional Information

- Refers to highest GCS motor score within 24 hours after arrival to index hospital, where index hospital is the hospital abstracting the data.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- Requires review of all data sources to obtain the highest GCS motor score. In many cases, the highest GCS motor score might occur after ED discharge.
- Best obtained when sedatives or paralytics are withheld as part of sedation holiday.
- If a patient does not have a numeric GCS score recorded, but written documentation closely (or directly) relates to verbiage describing a specific level of functioning within the GCS scale, the appropriate numeric score may be listed. E.g. the chart indicates: "patient withdraws from a painful stimulus," a Motor GCS of 4 may be recorded, IF there is no other contradicting documentation.

### Data Source Hierarchy Guide

- Neuro Assessment Flow Sheet
- Triage/Trauma/ICU Flow Sheet
- Nursing Notes/Flow Sheet
- Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
---------	-------	---------

10101	1	Value is not a valid menu option
10102	2	Field cannot be blank
10104	2	Field should be Not Applicable as the AIS codes provided do not meet collection criteria
10105	2	Field should not be Not Applicable as the AIS codes provided meet the collection criteria

## GCS ASSESSMENT QUALIFIER COMPONENT OF HIGHEST GCS TOTAL

Collection Criterion: Collect on patients with at least one injury in AIS head region

### Definition

Documentation of factors potentially affecting the highest GCS within 24 hours of ED/hospital arrival.

<b>XSD Element Name:</b> TbiGcsQualifier	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> GcsQualifier	<b>Multiple Entry Configuration:</b> Yes, max 3
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |  |   |
|--|---|
| 1. Patient chemically sedated or paralyzed | 3. Patient intubated  |
| 2. Obstruction to the patient's eye        | 4. Valid GCS: patient was not sedated, not intubated, and did not have obstruction to the eye |

### Additional Information

- Refers to highest GCS assessment qualifier score after arrival to index hospital, where index hospital is the hospital abstracting the data.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- Requires review of all data sources to obtain the highest GCS motor score which might occur after the ED phase of care.
- Identifies medical treatments given to the patient that may affect the best assessment of GCS. This field does not apply to self-medication the patient may have administered (i.e. ETOH, prescriptions, etc.).
- Must be the assessment qualifier for the Highest GCS Total.
- If an intubated patient has recently received an agent that results in neuromuscular blockade such that a motor or eye response is not possible, then the patient should be considered to have an exam that is not reflective of their neurologic status and the chemical sedation modifier should be selected.
- Neuromuscular blockade is typically induced following the administration of agent like succinylcholine, mivacurium, rocuronium, (cis)atracurium, vecuronium, or pancuronium. While these are the most common agents, please review what might be typically used in your center so it can be identified in the medical record.
- Each of these agents has a slightly different duration of action, so their effect on the GCS depends on when they were given. For example, succinylcholine's effects last for only 5-10 minutes.
- Check all that apply.

### Data Source Hierarchy Guide

- Neuro Assessment Flow Sheet
- Triage/Trauma/ICU Flow Sheet
- Nursing Notes/Flow Sheet
- Progress Notes
- Medication Summary

#### Associated Edit Checks

Rule ID	Level	Message
10201	1	Value is not a valid menu option
10202	2	Field cannot be blank
10203	2	Field should be Not Applicable as the AIS codes provided do not meet collection criteria
10204	2	Field should not be Not Applicable as the AIS codes provided meet the collection criteria

## INITIAL ED/HOSPITAL PUPILLARY RESPONSE

Collection Criterion: Collect on patients with at least one injury in AIS head region

### Definition

Physiological response of the pupil size within 30 minutes or less of ED/hospital arrival.

<b>XSD Element Name:</b> TbiPupillaryResponse	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> TbiPupillaryResponse	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Both reactive
2. One reactive
3. Neither reactive

### Additional Information

- Please note that first recorded hospital vitals do not need to be from the same assessment.
- If a patient does not have a listed field value recorded, but there is documentation related to their pupillary response such as PERRL "Pupils Equal Round Reactive to Light" submit field value 1. Both reactive IF there is no other contradicting documentation.
- The null value "Not Known/Not Recorded" should be submitted if this information is not documented or if assessment is unable to be obtained due to facial trauma and/or foreign object in the eye.
- Field value 2. One reactive should be reported for patients who have a prosthetic eye.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.

### Data Source Hierarchy Guide

1. ED Nurses' Notes/Trauma Flow Sheet
2. Physician's Progress Notes
3. H & P

### Associated Edit Checks

Rule ID	Level	Message
13601	1	Value is not a valid menu option
13602	2	Field cannot be blank
13603	2	Field should be Not Applicable as the AIS codes provided do not meet collection criteria
13604	2	Field should not be Not Applicable as the AIS codes provided meet the collection criteria

## MIDLINE SHIFT

Collection Criterion: Collect on patients with at least one injury in AIS head region

### Definition

> 5mm shift of the brain past its center line within 24 hours after time of injury

<b>XSD Element Name:</b> TbiMidlineShift	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> TbiMidlineShift	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Yes
2. No
3. Not Imaged (e.g. CT Scan, MRI)

### Additional Information

- If there is documentation of "massive" midline shift in lieu of >5mm shift measurement, submit field value 1. Yes.
- Radiological and surgical documentation from transferring facilities should be considered for this data field.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- The null value "Not Known/Not Recorded" is used if both the injury date and injury time are unknown.
- If the injury time is unknown, but there is supporting documentation that the injury occurred within 24-hours of any CT measuring a >5mm shift, report the field value "1. Yes" if there is no other contradicting documentation.
- If the patient was not imaged within 24 hours from the time of injury, report the field value "3. Not Imaged (e.g. CT Scan, MRI)".

### Data Source Hierarchy Guide

1. Radiology Report
2. OP Report
3. Physician's Progress Notes
4. Nurse's Notes
5. Hospital Discharge Summary

### Associated Edit Checks

Rule ID	Level	Message
13701	1	Value is not a valid menu option
13702	2	Field cannot be blank
13703	2	Field should be Not Applicable as the AIS codes provided do not meet collection criteria
13704	2	Field should not be Not Applicable as the AIS codes provided meet the collection

criteria

## CEREBRAL MONITOR

Collection Criterion: Collect on patients with at least one injury in AIS head region

### Definition

Indicate all cerebral monitors that were placed, including any of the following: ventriculostomy, subarachnoid bolt, camino bolt, external ventricular drain (EVD), licox monitor, jugular venous bulb.

<b>XSD Element Name:</b> TbiCerebralMonitor	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> TbiCerebralMonitor	<b>Multiple Entry Configuration:</b> Yes, max 4
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Intraventricular drain/catheter (e.g. ventriculostomy, external ventricular drain)
2. Intraparenchymal pressure monitor (e.g. Camino bolt, subarachnoid bolt, intraparenchymal catheter)
3. Intraparenchymal oxygen monitor (e.g. Licox)
4. Jugular venous bulb
5. None

### Additional Information

- Refers to insertion of an intracranial pressure (ICP) monitor (or other measures of cerebral perfusion) for the purposes of managing severe TBI.
- Cerebral monitor placed at a referring facility would be acceptable if such a monitor was used by receiving facility to monitor the patient.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- Check all that apply.

### Data Source Hierarchy Guide

1. Operative Report
2. Procedure Notes
3. Triage/Trauma/ICU Flow Sheet
4. Nursing Notes/Flow Sheet
5. Progress Notes
6. Anesthesia Record

### Associated Edit Checks

Rule ID	Level	Message
10301	1	Value is not a valid menu option
10302	2	Field cannot be blank
10304	2	Field should be Not Applicable as the AIS codes provided do not meet collection criteria
10305	2	Field should not be Not Applicable as the AIS codes provided meet the collection

criteria

## CEREBRAL MONITOR DATE

Collection Criterion: Collect on patients with at least one injury in AIS head region

### Definition

Date of first cerebral monitor placement.

<b>XSD Element Name:</b> TbiCerebralMonitorDate	<b>XSD Schema Datatype:</b> xs:date
<b>XSD ComplexType:</b> Date20102030	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 2010-01-01 <b>Maximum Value:</b> 2030-01-01	

### Field Values

- Relevant value for data element

### Additional Information

- Collected as YYYY-MM-DD.
- The null value "Not Applicable" is used if the patient did not have a cerebral monitor.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- If the cerebral monitor was placed at the referring facility, cerebral monitor date must be the date of insertion at the referring facility.

### Data Source Hierarchy Guide

1. Operative Report
2. Procedure Notes
3. Triage/Trauma/ICU Flow Sheet
4. Nursing Notes/Flow Sheet
5. Progress Notes
6. Anesthesia Record

### Associated Edit Checks

Rule ID	Level	Message
10401	1	Date is not valid
10402	2	Field cannot be blank
10403	1	Date out of range
10404	2	Field cannot be Not Applicable when Cerebral Monitor is not: (1) blank, (2) Not Applicable, (3) Not Known/Not Recorded, or (4) None
10405	3	Field should not be Not Known/Not Recorded when Cerebral Monitor is not: (1) blank, (2) Not Applicable, or (3) Not Known/Not Recorded
10407	4	Cerebral Monitor Date should not be earlier than ED/Hospital Arrival Date unless placed at referring facility and used for monitoring

10408	4	Cerebral Monitor Date should not be later than Hospital Discharge Date
10409	2	Field should be Not Applicable when Cerebral Monitor is Not Applicable or None

## CEREBRAL MONITOR TIME

Collection Criterion: Collect on patients with at least one injury in AIS head region

### Definition

Time of first cerebral monitor placement.

<b>XSD Element Name:</b> TbiCerebralMonitorTime	<b>XSD Schema Datatype:</b> xs:time
<b>XSD ComplexType:</b> Time	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element

### Additional Information

- Collected as HH:MM military time.
- The null value "Not Applicable" is used if the patient did not have a cerebral monitor.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- If the cerebral monitor was placed at the referring facility, cerebral monitor time must be the time of insertion at the referring facility.

### Data Source Hierarchy Guide

1. Operative Report
2. Procedure Notes
3. Triage/Trauma/ICU Flow Sheet
4. Nursing Notes/Flow Sheet
5. Progress Notes
6. Anesthesia Record

### Associated Edit Checks

Rule ID	Level	Message
10501	1	Time is not valid
10502	1	Time out of range
10503	2	Field cannot be blank
10504	2	Field cannot be Not Applicable when Cerebral Monitor is not: (1) blank, (2) Not Applicable, (3) Not Known/Not Recorded, or (4) None
10505	3	Field should not be Not Known/Not Recorded whe Cerebral Monitor is not: (1) blank, (2) Not Applicable, or (3) Not Known/Not Recorded
10506	4	Cerebral Monitor Time should not be earlier than ED/Hospital Arrival Time unless placed at referring facility and used for monitoring
10507	4	Cerebral Monitor Time should not be later than Hospital Discharge Time
10508	2	Field should be Not Applicable when Cerebral Monitor is Not Applicable or None

## VENOUS THROMBOEMBOLISM PROPHYLAXIS TYPE

PM\_09

Collection Criterion: Collect on all patients

### Definition

Type of first dose of VTE prophylaxis administered to patient at your hospital.

<b>XSD Element Name:</b> VteProphylaxisType	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> VteProphylaxisType	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |  |   |
|--|---|
| 1. Heparin   | 6. LMWH (Dalteparin, Enoxaparin, etc.)          |
| <del>2. RETIRED 2013 Lovenox (Enoxaparin)</del>  | 7. Direct Thrombin Inhibitor (Dabigatran, etc.) |
| <del>3. RETIRED 2013 Fragmin (Dalteparin)</del>  | 8. Oral Xa Inhibitor (Rivaroxaban, etc.)        |
| <del>4. RETIRED 2013 Other low molecular weight heparins (including but not limited to Tinzaparin (Innohep, Logiparin); Nadroparin (Fraxiparin).</del> | 9. Coumadin                                     |
| 5. None  | 10. Other                                       |

### Additional Information

#### Data Source Hierarchy Guide

1. Medication Summary
2. Nursing Notes/Flow Sheet
3. Pharmacy Record

### Associated Edit Checks

Rule ID	Level	Message
10601	1	Value is not a valid menu option
10602	2	Field cannot be blank
10603	2	Field cannot be Not Applicable

## VENOUS THROMBOEMBOLISM PROPHYLAXIS DATE

PM\_10

Collection Criterion: Collect on all patients

### Definition

Date of administration to patient of first prophylactic dose of heparin or other anticoagulants at your hospital.

<b>XSD Element Name:</b> VteProphylaxisDate	<b>XSD Schema Datatype:</b> xs:date
<b>XSD ComplexType:</b> Date20102030	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 2010-01-01 <b>Maximum Value:</b> 2030-01-01	

### Field Values

- Relevant value for data element

### Additional Information

- Collected as YYYY-MM-DD.
- Refers to date upon which patient first received the prophylactic agent indicated in VTE Prophylaxis Type field.
- The null value "Not Applicable" is used if Venous Thromboembolism Prophylaxis Type is 5. None.

### Data Source Hierarchy Guide

1. Medication Summary
2. Nursing Notes/Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
10701	1	Date is not valid
10702	1	Date out of range
10703	2	Field cannot be blank
10705	2	Field cannot be Not Applicable when VTE Prophylaxis is not: (1) blank, (2) Not Applicable, (3) Not Known/Not Recorded or (4) None
10706	2	VTE Prophylaxis Date is earlier than ED/Hospital Arrival Date
10707	2	VTE Prophylaxis Date is later than Hospital Discharge Date
10708	2	Field should be Not Applicable when VTE Prophylaxis is 'None'

## VENOUS THROMBOEMBOLISM PROPHYLAXIS TIME

PM\_11

Collection Criterion: Collect on all patients

### Definition

Time of administration to patient of first prophylactic dose of heparin or other anticoagulants at your hospital.

<b>XSD Element Name:</b> VteProphylaxisTime	<b>XSD Schema Datatype:</b> xs:time
<b>XSD ComplexType:</b> Time	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element

### Additional Information

- Collected as HH:MM military time.
- Refers to time at which patient first received the prophylactic agent indicated in VTE Prophylaxis Type field.
- The null value "Not Applicable" is used if Venous Thromboembolism Prophylaxis Type is 5. None.

### Data Source Hierarchy Guide

1. Medication Summary
2. Nursing Notes/Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
10801	1	Time is not valid
10802	1	Time out of range
10803	2	Field cannot be blank
10805	2	Field cannot be Not Applicable when VTE Prophylaxis is not: (1) blank, (2) Not Applicable, (3) Not Known/Not Recorded or (4) None
10806	2	VTE Prophylaxis Time is earlier than ED/Hospital Arrival Time
10807	2	VTE Prophylaxis Time is later than Hospital Discharge Time
10808	2	Field should be Not Applicable when VTE Prophylaxis is 'None'

## TRANSFUSION BLOOD (4 HOURS)

Collection Criterion: Collect on all patients

### Definition

Volume of packed red blood cells transfused (units or CCs) within first 4 hours after ED/hospital arrival.

<b>XSD Element Name:</b> TransfusionBlood4Hours	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Fluids4Hours	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 40000	

### Field Values

- Relevant value for data element

### Additional Information

- Refers to amount of transfused packed red blood cells (units or CCs) within first 4 hours after arrival to index hospital, where index hospital is the hospital abstracting the data.
- If no blood given, then volume should be 0 (zero).
- If packed red blood cells are transfusing upon patient arrival, count as 1-unit. Or, if reporting CCs, report the amount of CCs transfused at your center.
- Must also complete the fields Transfusion Blood Measurement and Transfusion Blood Conversion when product is transfused.

### Data Source Hierarchy Guide

1. Trauma Flow Sheet
2. Anesthesia Report
3. Operative Report
4. Nursing Notes/Flow Sheet
5. Blood Bank

### Associated Edit Checks

Rule ID	Level	Message
11001	1	Invalid value
11002	2	Field cannot be blank
11003	2	Field cannot be Not Applicable
11004	3	Warning: Value exceeds 80 for Units or 40,000 for CCs, please verify this is correct.

## TRANSFUSION BLOOD (24 HOURS)

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

Volume of packed red blood cell transfusion (units or CCs) within first 24 hours after ED/hospital arrival.

<b>XSD Element Name:</b> TransfusionBlood24Hours	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Fluids24Hours	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 60000	

### Field Values

- Relevant value for data element

### Additional Information

- Refers to amount of transfused packed red blood cells (units or CCs) within first 24 hours after arrival to index hospital, where index hospital is the hospital abstracting the data.
- The null value "Not Applicable" is used if no blood was given
- If the patient meets the collection criteria and packed red blood cells are transfusing upon patient arrival, count as 1-unit. Or, if reporting CCs, report the amount of CCs transfused at your center.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- Must also complete the fields Transfusion Blood Measurement and Transfusion Blood Conversion when product is transfused.

### Data Source Hierarchy Guide

1. Trauma Flow Sheet
2. Anesthesia Report
3. Operative Report
4. Nursing Notes/Flow Sheet
5. Blood Bank

### Associated Edit Checks

Rule ID	Level	Message
11401	1	Invalid value
11402	2	Field cannot be blank
11404	3	Warning: Value exceeds 120 for Units or 60,000 for CCs, please verify this is correct.
11405	2	Field cannot be Not Applicable when Transfusion Blood (4 Hours) is greater than 0
11406	2	Field must be Not Applicable when Transfusion Blood (4 Hours) is 0

- |       |   |   |
|-------|---|---|
| 11407 | 2 | Field must be Not Known/Not Recorded when Transfusion Blood (4 Hours) is Not Known/Not Recorded |
| 11408 | 2 | Field cannot be less than Transfusion Blood (4 Hours)   |

## TRANSFUSION BLOOD MEASUREMENT

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

The measurement used to document the patient's blood transfusion (Units, CCs [MLs]).

<b>XSD Element Name:</b> TransfusionBloodMeasure	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> FluidsMeasure	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Units

2. CCs (MLs)

### Additional Information

- Complete if fields Transfusion Blood (4 Hours) or Transfusion Blood (24 Hours) are valued.
- Must also complete field Transfusion Blood Conversion.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- The null value "Not Applicable" is used if no packed red blood cells were transfused.

### Data Source Hierarchy Guide

1. Blood Bank

### Associated Edit Checks

Rule ID	Level	Message
12801	1	Value is not a valid menu option
12802	2	Field cannot be blank

## TRANSFUSION BLOOD CONVERSION

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

The quantity of CCs [MLs] constituting a 'unit' for blood transfusions at your hospital.

<b>XSD Element Name:</b> TransfusionBloodConversion	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> FluidsConversion	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 1000	

### Field Values

- Relevant value for data element

### Additional Information

- Complete if fields Transfusion Blood (4 Hours) or Transfusion Blood (24 Hours) are valued.
- Must also complete field Transfusion Blood Measurement.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- The null value "Not Applicable" is used if reporting transfusion blood measurements in CCs.
- The null value "Not Applicable" is used if no packed red blood cells were transfused.

### Data Source Hierarchy Guide

1. Blood Bank

### Associated Edit Checks

Rule ID	Level	Message
12901	1	Value exceeds the max of 1000 (or is not a valid number)
12902	3	Warning: Value exceeds 500, please verify this is correct.
12903	2	Field cannot be blank

## TRANSFUSION PLASMA (4 HOURS)

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

Volume of fresh frozen or thawed plasma (units or CCs) transfused within first 4 hours after ED/hospital arrival.

<b>XSD Element Name:</b> TransfusionPlasma4Hours	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Fluids4Hours	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 40000	

### Field Values

- Relevant value for data element

### Additional Information

- Refers to amount of transfused fresh frozen or thawed plasma (units or CCs) within first 4 hours after arrival to index hospital, where index hospital is the hospital abstracting the data.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- If the patient meets the collection criteria and plasma is transfusing upon patient arrival, count as 1-unit. If reporting CCs, report the amount of CCs transfused at your center.
- Must also complete the fields Transfusion Plasma Measurement and Transfusion Plasma Conversion when product is transfused.

### Data Source Hierarchy Guide

1. Trauma Flow Sheet
2. Anesthesia Report
3. Operative Report
4. Nursing Notes/Flow Sheet
5. Blood Bank

### Associated Edit Checks

Rule ID	Level	Message
11101	1	Invalid value
11102	2	Field cannot be blank
11104	3	Warning: Value exceeds 80 for Units or 40,000 for CCs, please verify this is correct.
11105	2	Field cannot be Not Applicable when Transfusion Blood (4 Hours) is greater than 0
11106	2	Field must be Not Applicable when Transfusion Blood (4 Hours) is 0
11107	2	Field must be Not Known/Not Recorded when Transfusion Blood (4 Hours) is Not

Known/Not Recorded

## TRANSFUSION PLASMA (24 HOURS)

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

Volume of fresh frozen or thawed plasma (units or CCs) transfused within first 24 hours after ED/hospital arrival.

<b>XSD Element Name:</b> TransfusionPlasma24Hours	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Fluids24Hours	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 60000	

### Field Values

- Relevant value for data element

### Additional Information

- Refers to amount of transfused fresh frozen or thawed plasma (units or CCs) within first 24 hours after arrival to index hospital, where index hospital is the hospital abstracting the data.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- If the patient meets the collection criteria and plasma is transfusing upon patient arrival, count as 1-unit. If reporting CCs, report the amount of CCs transfused at your center.
- Must also complete the fields Transfusion Plasma Measurement and Transfusion Plasma Conversion when product is transfused.

### Data Source Hierarchy Guide

1. Trauma Flow Sheet
2. Anesthesia Report
3. Operative Report
4. Nursing Notes/Flow Sheet
5. Blood Bank

### Associated Edit Checks

Rule ID	Level	Message
11501	1	Invalid value
11502	2	Field cannot be blank
11504	3	Warning: Value exceeds 120 for Units or 60,000 for CCs, please verify this is correct.
11506	2	Field cannot be Not Applicable when Transfusion Blood (4 Hours) is greater than 0
11507	2	Field must be Not Applicable when Transfusion Blood (4 Hours) is 0

- |       |   |   |
|-------|---|---|
| 11508 | 2 | Field cannot be less than Transfusion Plasma (4 Hours)  |
| 11509 | 2 | Field must be Not Known/Not Recorded when Transfusion Blood (4 Hours) is Not Known/Not Recorded |

## TRANSFUSION PLASMA MEASUREMENT

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

The measurement used to document the patient's plasma transfusion (Units, CCs [MLs]).

<b>XSD Element Name:</b> TransfusionPlasmaMeasure	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> FluidsMeasure	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Units

2. CCs (MLs)

### Additional Information

- Complete if fields Transfusion Plasma (4 Hours) or Transfusion Plasma (24 Hours) are valued.
- Must also complete field Transfusion Plasma Conversion.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- The null value "Not Applicable" is used if no plasma was transfused.

### Data Source Hierarchy Guide

1. Blood Bank

### Associated Edit Checks

Rule ID	Level	Message
13001	1	Value is not a valid menu option
13002	2	Field cannot be blank

## TRANSFUSION PLASMA CONVERSION

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

The quantity of CCs [MLs] constituting a 'unit' for plasma transfusions at your hospital.

<b>XSD Element Name:</b> TransfusionPlasmaConversion	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> FluidsConversion	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 1000	

### Field Values

- Relevant value for data element

### Additional Information

- Complete if fields Transfusion Plasma (4 Hours) or Transfusion Plasma (24 Hours) are valued.
- Must also complete field Transfusion Plasma Measurement.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- The null value "Not Applicable" is used if reporting transfusion plasma measurements in CCs.
- The null value "Not Applicable" is used if no plasma was transfused.

### Data Source Hierarchy Guide

1. Blood Bank

### Associated Edit Checks

Rule ID	Level	Message
13101	1	Value exceeds the max of 1000 (or is not a valid number)
13102	3	Warning: Value exceeds 500, please verify this is correct.
13103	2	Field cannot be blank

## TRANSFUSION PLATELETS (4 HOURS)

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

Volume of platelets (units or CCs) transfused within first 4 hours after ED/hospital arrival.

<b>XSD Element Name:</b> TransfusionPlatelets4Hours	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Fluids4Hours	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 40000	

### Field Values

- Relevant value for data element

### Additional Information

- Refers to amount of transfused platelets (units or CCs) within first 4 hours after arrival to index hospital, where index hospital is the hospital abstracting the data.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- If the patient meets the collection criteria and platelets are transfusing upon patient arrival, count as 1-unit. If reporting CCs, report the amount of CCs transfused at your center.
- Must also complete the fields Transfusion Platelets Measurement and Transfusion Platelets Conversion when product is transfused.

### Data Source Hierarchy Guide

1. Trauma Flow Sheet
2. Anesthesia Report
3. Operative Report
4. Nursing Notes/Flow Sheet
5. Blood Bank

### Associated Edit Checks

Rule ID	Level	Message
11201	1	Invalid value
11202	2	Field cannot be blank
11204	3	Warning: Value exceeds 80 for Units or 40,000 for CCs, please verify this is correct.
11205	2	Field cannot be Not Applicable when Transfusion Blood (4 Hours) is greater than 0
11206	2	Field must be Not Applicable when Transfusion Blood (4 Hours) is 0
11207	2	Field must be Not Known/Not Recorded when Transfusion Blood (4 Hours) is Not Known/Not Recorded

## TRANSFUSION PLATELETS (24 HOURS)

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

Volume of platelets (units or CCs) transfused within first 24 hours after ED/hospital arrival.

<b>XSD Element Name:</b> TransfusionPlatelets24Hours	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Fluids24Hours	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 60000	

### Field Values

- Relevant value for data element

### Additional Information

- Refers to amount of transfused platelets (units or CCs) within first 24 hours after arrival to index hospital, where index hospital is the hospital abstracting the data.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- If the patient meets the collection criteria and platelets are transfusing upon patient arrival, count as 1-unit. If reporting CCs, report the amount of CCs transfused at your center.
- Must also complete the fields Transfusion Platelets Measurement and Transfusion Platelets Conversion when product is transfused.

### Data Source Hierarchy Guide

1. Trauma Flow Sheet
2. Anesthesia Report
3. Operative Report
4. Nursing Notes/Flow Sheet
5. Blood Bank

### Associated Edit Checks

Rule ID	Level	Message
11601	1	Invalid value
11602	2	Field cannot be blank
11604	3	Warning: Value exceeds 120 for Units or 60,000 for CCs, please verify this is correct.
11605	2	Field cannot be Not Applicable when Transfusion Blood (4 Hours) is greater than 0
11606	2	Field must be Not Applicable when Transfusion Blood (4 Hours) is 0
11607	2	Field cannot be less than Transfusion Platelets (4 Hours)

11608	2	Field must be Not Known/Not Recorded when Transfusion Blood (4 Hours) is Not Known/Not Recorded
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## TRANSFUSION PLATELETS MEASUREMENT

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

The measurement used to document the patient's platelets transfusion (Units, CCs [MLs]).

<b>XSD Element Name:</b> TransfusionPlateletsMeasure	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> FluidsMeasure	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Units

2. CCs (MLs)

### Additional Information

- Complete if fields Transfusion Platelets (4 Hours) or Transfusion Platelets (24 Hours) are valued.
- Must also complete field Transfusion Platelets Conversion.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- The null value "Not Applicable" is used if no platelets were transfused.

### Data Source Hierarchy Guide

1. Blood Bank

### Associated Edit Checks

Rule ID	Level	Message
13201	1	Value is not a valid menu option
13202	2	Field cannot be blank

## TRANSFUSION PLATELETS CONVERSION

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

The quantity of CCs [MLs] constituting a 'unit' for platelets transfusions at your hospital.

<b>XSD Element Name:</b> TransfusionPlateletsConversion	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> FluidsConversion	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 1000	

### Field Values

- Relevant value for data element

### Additional Information

- Complete if fields Transfusion Platelets (4 Hours) or Transfusion Platelets (24 Hours) are valued.
- Must also complete field Transfusion Platelets Measurement.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- The null value "Not Applicable" is used if reporting transfusion platelets measurements in CCs.
- The null value "Not Applicable" is used if no platelets were transfused.

### Data Source Hierarchy Guide

1. Blood Bank

### Associated Edit Checks

Rule ID	Level	Message
13301	1	Value exceeds the max of 1000 (or is not a valid number)
13302	3	Warning: Value exceeds 500, please verify this is correct.
13303	2	Field cannot be blank

## CRYOPRECIPITATE (4 HOURS)

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

Volume of solution enriched with clotting factors transfused (units or CCs) within first 4 hours after ED/hospital arrival.

<b>XSD Element Name:</b> Cryoprecipitate4Hours	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Fluids4Hours	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 40000	

### Field Values

- Relevant value for data element

### Additional Information

- Refers to amount of transfused cryoprecipitate (units or CCs) within first 4 hours after arrival to index hospital, where index hospital is the hospital abstracting the data.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- If the patient meets the collection criteria and cryoprecipitate is transfusing upon patient arrival, count as 1-unit. If reporting CCs, report the amount of CCs transfused at your center.
- Must also complete the fields Cryoprecipitate Measurement and Cryoprecipitate Conversion when product is transfused.

### Data Source Hierarchy Guide

1. Trauma Flow Sheet
2. Anesthesia Report
3. Operative Report
4. Nursing Notes/Flow Sheet
5. Blood Bank

### Associated Edit Checks

Rule ID	Level	Message
11301	1	Invalid value
11302	2	Field cannot be blank
11304	3	Warning: Value exceeds 80 for Units or 40,000 for CCs, please verify this is correct.
11305	2	Field cannot be Not Applicable when Transfusion Blood (4 Hours) is greater than 0
11306	2	Field must be Not Applicable when Transfusion Blood (4 Hours) is 0
11307	2	Field must be Not Known/Not Recorded when Transfusion Blood (4 Hours) is Not Known/Not Recorded

**CRYOPRECIPITATE (24 HOURS)**

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

**Definition**

Volume of solution enriched with clotting factors transfused (units or CCs) within first 24 hours after ED/hospital arrival.

<b>XSD Element Name:</b> Cryoprecipitate24Hours	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Fluids24Hours	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 60000	

**Field Values**

- Relevant value for data element

**Additional Information**

- Refers to amount of transfused cryoprecipitate (units or CCs) within first 24 hours after arrival to index hospital, where index hospital is the hospital abstracting the data.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- If the patient meets the collection criteria and cryoprecipitate is transfusing upon patient arrival, count as 1-unit. If reporting CCs, report the amount of CCs transfused at your center.
- Must also complete the fields Cryoprecipitate Measurement and Cryoprecipitate Conversion when product is transfused.

**Data Source Hierarchy Guide**

1. Trauma Flow Sheet
2. Anesthesia Report
3. Operative Report
4. Nursing Notes/Flow Sheet
5. Blood Bank

**Associated Edit Checks**

Rule ID	Level	Message
12701	1	Invalid value
12702	2	Field cannot be blank
12704	3	Warning: Value exceeds 120 for Units or 60,000 for CCs, please verify this is correct.
12705	2	Field cannot be Not Applicable when Transfusion Blood (4 Hours) is greater than 0
12706	2	Field must be Not Applicable when Transfusion Blood (4 Hours) is 0
12707	2	Field cannot be less than Transfusion Cryoprecipitate (4 Hours)

12708	2	Field must be Not Known/Not Recorded when Transfusion Blood (4 Hours) is Not Known/Not Recorded
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## CRYOPRECIPITATE MEASUREMENT

PM\_26

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

The measurement used to document the patient's cryoprecipitate transfusion (Units, CCs [MLs]).

<b>XSD Element Name:</b> CryoprecipitateMeasure	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> FluidsMeasure	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Units

2. CCs (MLs)

### Additional Information

- Complete if fields Cryoprecipitate (4 Hours) or Cryoprecipitate (24 Hours) are valued.
- Must also complete field Cryoprecipitate Conversion.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- The null value "Not Applicable" is used if no cryoprecipitate was transfused.

### Data Source Hierarchy Guide

1. Blood Bank

### Associated Edit Checks

Rule ID	Level	Message
13401	1	Value is not a valid menu option
13402	2	Field cannot be blank

## CRYOPRECIPITATE CONVERSION

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

The quantity of CCs [MLs] constituting a 'unit' for cryoprecipitate transfusions at your hospital.

<b>XSD Element Name:</b> CryoprecipitateConversion	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> FluidsConversion	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 1000	

### Field Values

- Relevant value for data element

### Additional Information

- Complete if fields Cryoprecipitate (4 Hours) or Cryoprecipitate (24 Hours) are valued.
- Must also complete field Cryoprecipitate Measurement.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- The null value "Not Applicable" is used if reporting transfusion cryoprecipitate measurements in CCs.
- The null value "Not Applicable" is used if no cryoprecipitate was transfused.

### Data Source Hierarchy Guide

1. Blood Bank

### Associated Edit Checks

Rule ID	Level	Message
13501	1	Value exceeds the max of 1000 (or is not a valid number)
13502	3	Warning: Value exceeds 500, please verify this is correct.
13503	2	Field cannot be blank

## LOWEST ED/HOSPITAL SYSTOLIC BLOOD PRESSURE

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

Lowest sustained (>5 min) systolic blood pressure measured within the first hour of ED/hospital arrival.

<b>XSD Element Name:</b> LowestSbp	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Sbp	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 0 <b>Maximum Value:</b> 300	

### Field Values

- Relevant value for data element

### Additional Information

- Refers to lowest sustained (>5 min) SBP in the ED/hospital of the index hospital, where index hospital is the hospital abstracting the data.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.

### Data Source Hierarchy Guide

1. Triage/Trauma/ICU Flow Sheet
2. Operative Report
3. Nursing Notes/Flow Sheet

### Associated Edit Checks

Rule ID	Level	Message
10901	1	Invalid value
10902	2	Field cannot be blank
10903	3	Warning: SBP value exceeds the max of 300
10905	2	Field cannot be Not Applicable when Transfusion Blood (4 Hours) is greater than 0
10906	2	Field must be Not Applicable when Transfusion Blood (4 Hours) is 0
10907	2	Field must be Not Known/Not Recorded when Transfusion Blood (4 Hours) is Not Known/Not Recorded

## ANGIOGRAPHY

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

First interventional angiogram with or without embolization within first 24 hours of ED/Hospital arrival.

<b>XSD Element Name:</b> Angiography	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> Angiography	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. None
2. Angiogram only
3. Angiogram with embolization

### Additional Information

- Limit collection of angiography data to first 24 hours following ED/hospital arrival.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- Excludes CTA.

### Data Source Hierarchy Guide

1. Radiology Report
2. Operative Report
3. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
11701	1	Value is not a valid menu option
11702	2	Field cannot be blank
11703	2	Field cannot be Not Applicable when Transfusion Blood (4 Hours) is greater than 0
11704	2	Field must be Not Applicable when Transfusion Blood (4 Hours) is 0
11705	2	Field must be Not Known/Not Recorded when Transfusion Blood (4 Hours) is Not Known/Not Recorded

## EMBOLIZATION SITE

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

Organ / site of embolization for hemorrhage control.

<b>XSD Element Name:</b> EmbolizationSite	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> EmbolizationSite	<b>Multiple Entry Configuration:</b> Yes, max 8
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |                                       |  |
|---------------------------------------|--|
| 1. Liver                              | 5. Retroperitoneum (lumbar, sacral)        |
| 2. Spleen                             | 6. Peripheral vascular (neck, extremities) |
| 3. Kidneys                            | 7. Aorta (thoracic or abdominal)           |
| 4. Pelvic (iliac, gluteal, obturator) | 8. Other                                   |

### Additional Information

- The null value "Not Applicable" is used if the data field Angiography is 1. None or 2. Angiogram Only.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.
- Check all that apply.

### Data Source Hierarchy Guide

- Radiology Report
- Operative Report
- Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
11801	1	Value is not a valid menu option
11802	2	Field cannot be blank
11803	2	Field cannot be Not Applicable when Angiography is 'Angiogram with embolization'
11804	2	Field should be Not Applicable when Angiography is 'None' or 'Angiogram only'

## ANGIOGRAPHY DATE

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

Date the first angiogram with or without embolization was performed.

<b>XSD Element Name:</b> AngiographyDate	<b>XSD Schema Datatype:</b> xs:date
<b>XSD ComplexType:</b> Date20102030	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 2010-01-01 <b>Maximum Value:</b> 2030-01-01	

### Field Values

- Relevant value for data element

### Additional Information

- Collected as YYYY-MM-DD.
- The null value "Not Applicable" is used if the data field Angiography is 1. None.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.

### Data Source Hierarchy Guide

1. Radiology Report
2. Operative Report
3. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
11901	1	Date is not valid
11902	1	Date out of range
11903	2	Field cannot be blank
11904	2	Field cannot be Not Applicable when Angiography is 'Angiogram only' or 'Angiogram with embolization'
11905	2	Field should be Not Applicable when Angiography is 'None'
11906	2	Angiography Date is earlier than ED/Hospital Arrival Date
11907	2	Angiography Date is later than Hospital Discharge Date
11908	3	Angiography Date/Time minus ED/Hospital Arrival Date/Time is greater than 24 hours

## ANGIOGRAPHY TIME

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

Time the first angiogram with or without embolization was performed.

<b>XSD Element Name:</b> AngiographyTime	<b>XSD Schema Datatype:</b> xs:time
<b>XSD ComplexType:</b> Time	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element

### Additional Information

- Collected as HH:MM military time.
- The null value "Not Applicable" is used if the data field Angiography is 1. None.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.

### Data Source Hierarchy Guide

1. Radiology Report
2. Operative Report
3. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
12001	1	Time is not valid
12002	1	Time out of range
12003	2	Field cannot be blank
12004	2	Field cannot be Not Applicable when Angiography is 'Angiogram only' or 'Angiogram with embolization'
12005	2	Field should be Not Applicable when Angiography is 'None'
12006	2	Angiography Time is earlier than ED/Hospital Arrival Time
12007	2	Angiography Time is later than Hospital Discharge Time
12008	3	Angiography Date/Time minus ED/Hospital Arrival Date/Time is greater than 24 hours

## SURGERY FOR HEMORRHAGE CONTROL TYPE

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

First type of surgery for hemorrhage control within the first 24 hours of ED/hospital arrival.

<b>XSD Element Name:</b> HemorrhageControlSurgeryType	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> HemorrhageControlSurgeryType	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

- |                |   |
|----------------|---|
| 1. None        | 5. Extremity (peripheral vascular)        |
| 2. Laparotomy  | 6. Neck                                   |
| 3. Thoracotomy | 7. Mangled extremity/traumatic amputation |
| 4. Sternotomy  | 8. Other skin/soft tissue                 |

### Additional Information

- If unclear if surgery was for hemorrhage control, then consult TMD or operating/consulting/relevant surgeon.
- The null value "Not Applicable" is used for patients that do not meet the collection criterion.

### Data Source Hierarchy Guide

1. Operative Report
2. Procedure Notes
3. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
12101	1	Value is not a valid menu option
12102	2	Field cannot be blank
12103	2	Field cannot be Not Applicable when Transfusion Blood (4 Hours) is greater than 0
12104	2	Field must be Not Applicable when Transfusion Blood (4 Hours) is 0
12105	2	Field must be Not Known/Not Recorded when Transfusion Blood (4 Hours) is Not Known/Not Recorded

## SURGERY FOR HEMORRHAGE CONTROL DATE

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

Date of first surgery for hemorrhage control within first 24 hours of ED/hospital arrival.

<b>XSD Element Name:</b> HemorrhageControlSurgeryDate	<b>XSD Schema Datatype:</b> xs:date
<b>XSD ComplexType:</b> Date20102030	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 2010-01-01 <b>Maximum Value:</b> 2030-01-01	

### Field Values

- Relevant value for data element

### Additional Information

- Collected as YYYY-MM-DD.
- If unclear if surgery was for hemorrhage control, then consult TMD or operating/consulting/relevant surgeon.
- The null value "Not Applicable" is used if the data field Surgery for Hemorrhage Control Type is 1. None.
- The null value "Not Applicable" is used for patients that do not meet the collection criteria.

### Data Source Hierarchy Guide

1. Operative Report
2. Procedure Notes
3. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
12201	1	Date is not valid
12202	1	Date out of range
12203	2	Surgery For Hemorrhage Control Date is earlier than ED/Hospital Arrival Date
12204	2	Surgery For Hemorrhage Control Date is later than Hospital Discharge Date
12205	2	Field cannot be Not Applicable when Hemorrhage Control Surgery Type is not: (1) blank, (2) Not Applicable, (3) Not Known/Not Recorded or (4) None
12206	2	Field should be Not Applicable when Hemorrhage Control Surgery Type is 'None'
12207	2	Field cannot be blank

## SURGERY FOR HEMORRHAGE CONTROL TIME

Collection Criterion: Collect on all patients with transfused packed red blood cells within first 4 hours after ED/hospital arrival

### Definition

Time of first surgery for hemorrhage control within first 24 hours of ED/hospital arrival.

<b>XSD Element Name:</b> HemorrhageControlSurgeryTime	<b>XSD Schema Datatype:</b> xs:time
<b>XSD ComplexType:</b> Time	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element

### Additional Information

- Collected as HH:MM military time.
- If unclear if surgery was for hemorrhage control, then consult TMD or operating/consulting/relevant surgeon.
- The null value "Not Applicable" is used if the data field Surgery for Hemorrhage Control Type is 1. None.
- The null value "Not Applicable" is used for patients that do not meet the collection criteria.

### Data Source Hierarchy Guide

1. Operative Report
2. Procedure Notes
3. Progress Notes

### Associated Edit Checks

Rule ID	Level	Message
12301	1	Time is not valid
12302	1	Time out of range
12303	2	Surgery For Hemorrhage Control Time is earlier than ED/Hospital Arrival Time
12304	2	Surgery For Hemorrhage Control Time is later than Hospital Discharge Time
12305	2	Field cannot be Not Applicable when Hemorrhage Control Surgery Type is not: (1) blank, (2) Not Applicable, (3) Not Known/Not Recorded or (4) None
12306	2	Field should be Not Applicable when Hemorrhage Control Surgery Type is 'None'
12307	2	Field cannot be blank

## WITHDRAWAL OF CARE

Collection Criterion: Collect on all patients

### Definition

Care was withdrawn based on a decision to either remove or withhold further life sustaining intervention. This decision must be documented in the medical record and is often, but not always associated with a discussion with the legal next of kin.

<b>XSD Element Name:</b> WithdrawalOfCare	<b>XSD Schema Datatype:</b> xs:integer
<b>XSD ComplexType:</b> YesNo	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Constraint:</b> Enumerated List	

### Field Values

1. Yes 2. No

### Additional Information

- DNR not a requirement.
- A note to limit escalation of care qualifies as a withdrawal of care. These interventions are limited to: ventilator support (with or without extubation), dialysis or other forms of renal support, institution of medications to support blood pressure or cardiac function, or a specific surgical, interventional or radiological procedure (e.g. decompressive craniectomy, operation for hemorrhage control, angiography). Note that this definition provides equal weight to the withdrawal of an intervention already in place (e.g. extubation) and a decision not to proceed with a life-saving intervention (e.g. intubation).
- Excludes the discontinuation of CPR and typically involves prior planning.
- DNR order is not the same as withdrawal of care.
- The field value 'No' should be used for patients whose time of death, according to your hospitals definition, was prior to the removal of any interventions or escalation of care.

### Data Source Hierarchy Guide

1. Physician Order
2. Progress Notes
3. Case Manager/Social Services Notes
4. Nursing Notes/Flow Sheet
5. Discharge Summary

### Associated Edit Checks

Rule ID	Level	Message
12401	1	Value is not a valid menu option
12402	2	Field cannot be blank
12403	2	Field cannot be Not Applicable

## WITHDRAWAL OF CARE DATE

Collection Criterion: Collect on all patients

### Definition

The date care was withdrawn.

<b>XSD Element Name:</b> WithdrawalOfCareDate	<b>XSD Schema Datatype:</b> xs:date
<b>XSD ComplexType:</b> Date20102030	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values
<b>Minimum Value:</b> 2010-01-01 <b>Maximum Value:</b> 2030-01-01	

### Field Values

- Relevant value for data element

### Additional Information

- Collected as YYYY-MM-DD.
- The null value "Not Applicable" is used for patients where Withdrawal of Care is 2. No.
- Record the time the first of any existing life-sustaining intervention(s) is withdrawn (e.g. extubation). If no intervention(s) is in place, record the time the decision not to proceed with a life-saving intervention(s) occurs (e.g. intubation).

### Data Source Hierarchy Guide

1. Physician Order
2. Progress Notes
3. Respiratory Therapy Notes/Flow Sheet
4. Case Manager/Social Services Notes
5. Nursing Notes/Flow Sheet
6. Discharge Summary

### Associated Edit Checks

Rule ID	Level	Message
12501	1	Date is not valid
12502	1	Date out of range
12503	2	Withdrawal of Care Date is earlier than ED/Hospital Arrival Date
12504	2	Withdrawal of Care Date is later than Hospital Discharge Date
12505	2	Field cannot be Not Applicable when Withdrawal of Care is 'Yes'
12506	2	Field should be Not Applicable when Withdrawal of Care is 'No'
12507	2	Field cannot be blank

## WITHDRAWAL OF CARE TIME

Collection Criterion: Collect on all patients

### Definition

The time care was withdrawn.

<b>XSD Element Name:</b> WithdrawalOfCareTime	<b>XSD Schema Datatype:</b> xs:time
<b>XSD ComplexType:</b> Time	<b>Multiple Entry Configuration:</b> No
<b>Required in XSD:</b> Yes	<b>Accepts Null Value:</b> yes, common null values

### Field Values

- Relevant value for data element

### Additional Information

- Collected as HH:MM military time.
- The null value "Not Applicable" is used for patients where Withdrawal of Care is 2. No.
- Record the time the first of any existing life-sustaining intervention(s) is withdrawn (e.g. extubation). If no intervention(s) is in place, record the time the decision not to proceed with a life-saving intervention(s) occurs (e.g. intubation).

### Data Source Hierarchy Guide

1. Physician Order
2. Progress Notes
3. Respiratory Therapy Notes/Flow Sheet
4. Case Manager/Social Services Notes
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6. Discharge Summary

### Associated Edit Checks

Rule ID	Level	Message
12601	1	Time is not valid
12602	1	Time out of range
12603	2	Withdrawal of Care Time is earlier than ED/Hospital Arrival Time
12604	2	Withdrawal of Care Time is later than Hospital Discharge Time
12605	2	Field cannot be Not Applicable when Withdrawal of Care is 'Yes'
12606	2	Field should be Not Applicable when Withdrawal of Care is 'No'
12607	2	Field cannot be blank